product summary ▪ resumen de productos ▪ sommaire du produit
PRODUCT SUMMARY

VETERINARY PHARMACEUTICALS & NUTRACEUTICALS
DETERGENTS & DISINFECTANTS
PREMIXTURES & ADDITIVES
COMPOUND & COMPLEMENTARY FEEDS

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For the latest news about our company and our product range: visit our website!

"Dutch Farm" is a registered trademark
Pharmaceutical manufacturer authorisation no. 2418-FIGL
Feed business authorisation no. αNL207231

June 2020
### VITAMINS & MINERALS

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**DUFADIGEST POWDER**

**Composition:**
Contains per g powder:
- Calcium propionate .................... 300 mg
- Sodium propionate ..................... 500 mg
- Gentian root powder .................... 25 mg
- Sodium molybdate dihydrate...........125 mcg
- Copper sulphate pentahydrate ..........600 mcg
- Cobalt sulphate ........................ 600 mcg
- Iron sulphate heptahydrate....... 600 mcg
- Manganese sulphate monohydrate ...300 mcg
- Zinc sulphate monohydrate ...... 200 mcg
- Sodium chloride ...................... 167.6 mg

**Indications:**
Treatment and prevention of digestive dysfunction in sheep, goats, cattle, swine and poultry. Disorders due to change in feed, feed intoxication, ketosis or indigestion in general. Dehydration/electrolyte losses as a result of e.g. diarrhoea.

**Contraindications:**
None.

**Dosage and administration:**
For oral administration in drinking water.

- Piglets .................. 20 g per 1 litre of water per 40 kg body weight in addition to normal rations
- Poultry .................................200 g per 200-400 litres of water per day, for 3-5 days
- Sheep and goats ..........................10 g per litre of lukewarm water, 4 times a day
- Calves (~40 kg body weight) ..............20 g per litre of lukewarm water, 4 times a day
- Feedlot cattle upon arrival: administer only water with Dufadigest Powder on the first day (1000 g per 20 litres of water), followed by seven days of 1.5 litres of drinking water with Dufadigest Powder in addition to normal rations twice a day.

Once dissolved, Dufadigest Powder should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
None.

**Storage conditions:**
Store dark, dry and below 25°C. Do not freeze.

**Packing:**
100 g sachets and 1 kg jars.
**VITACON EXTRA W.S.P.**

**Composition:**
Contains per g water soluble powder:
- Retinyl acetate (A) .................... 7,500 IU
- Cholecalciferol (D3) .................. 1,500 IU
- α-Tocopherol acetate (E) ............. 10 mg
- Thiamine HCl (B1) ...................... 1 mg
- Riboflavin (B2) ........................ 3.5 mg
- Nicotinamide (B3) ........................ 10 mg
- Calcium pantothenate (B5) ........ 2.5 mg
- Pyridoxine HCl (B6) ................... 1 mg
- Cyanocobalamin (B12) ................ 1 mcg
- Ascorbic acid (C) ...................... 10 mg
- Menadione sodium bisulfite (K3) .. 1.5 mg
- Manganese sulphate ................... 15 mg
- Iron(II)sulphate ......................... 10 mg
- Copper(II)sulphate ..................... 5 mg

**Description:**
An adequate supply of vitamins and trace elements is essential to build lean muscle mass, to improve health of joints, skin, coat and the immune system, and to enhance strength, energy, fertility, production and performance.

**Indications:**
For the treatment and prevention of vitamin and/or trace element deficiencies in cattle, horses, sheep, swine and poultry.

**Dosage and administration:**
For oral administration in drinking water or feed.

Therapeutic dosage in drinking water:
- Cattle and horses ................ 150 g per 200 litres of water
- Swine and sheep ................. 125 g per 200 litres of water
- Poultry .......................... 50 g per 200 litres of water, for 14 days

Therapeutic dosage in feed:
- 10 - 15 g per 250 kg body weight per day, for 14 days

For prophylaxis, administer 50% of the therapeutic dosage.

Once dissolved, Vitacon Extra W.S.P. should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
None.

**Storage conditions:**
Store dark, dry and below 25°C. Do not freeze.

**Packing:**
100 g sachets and 1 kg jars.
VITAMINERAL-DOG TABLETS

Composition:
Contains per tablet of 750 mg:
- Vitamin A (Retinol Acetate) ........... 500 IU
- Vitamin B1 (Thiamine HCl) ........... 1 mg
- Vitamin B2 (Riboflavin) ............... 0.5 mg
- Vitamin B6 (Pyridoxine HCl)......... 0.1 mg
- Vitamin B12 (Cyanocobalamin)...... 3 mcg
- Vitamin C (Ascorbic Acid) .......... 10 mg
- Vitamin D3 (Cholecalciferol) ....... 50 IU
- Vitamin E (Tocopherol Acetate) .. 0.5 mg
- Nicotinamide ........................... 1.5 mg
- Calcium D pantothenate ............. 1 mg
- Folic Acid ................................ 20 mcg
- Biotin .................................... 20 mcg
- Dicalcium phosphate .................. 10 mg
- Iron sulfate ............................. 15 mg
- Zinc sulfate ............................. 15 mg

Description:
An adequate supply of vitamins and minerals is essential to build lean muscle mass, to improve health of joints, skin, coat and the immune system, and to enhance strength, energy and fertility in performance dogs as well as family pets.

Directions for use
The following daily dose is recommended:
Puppies and small dogs (≤ 20 kg) ........½ tablet
Large dogs (> 20 kg) ..................... 1 tablet
The tablets may be administered directly to the animal or crushed and mixed with feed.
Pups, pregnant bitches, dogs fed a homemade diet, geriatric dogs and dogs convalescing after illness or surgery require additional nutrients. For these, double the normally recommended daily dose.

Storage conditions:
Store below 25°C in a dark, dry place.

Packing:
Jars containing 200 tablets.
DUFA-CALCIO GEL

Composition:
Contains per ml oral solution:
Calcium chloride dihydrate ..................500 mg
Magnesium chloride hexahydrate .......... 80 mg

Indications:
Treatment of calcium and/or magnesium deficiencies in cattle.
Prevention of milk fever in cattle.

Contraindications:
None.

Dosage and administration:
For oral administration

Treatment of calcium and/or magnesium deficiencies:
- 500 ml Dufa-Calcio Gel 12 hours after intravenous therapy

Prevention of milk fever:
- 500 ml Dufa-Calcio Gel 12 hours prior to expected calving, followed by
- 500 ml Dufa-Calcio Gel immediately after calving, followed by
- 500 ml Dufa-Calcio Gel 12 hours after calving, followed by
- 500 ml Dufa-Calcio Gel 24 hours after calving

Side effects:
Reduced appetite or diarrhoea due to gastric irritation.

Precautions and warnings:
Do not administer in the absence of a swallowing reflex, to avoid accidental administration into the trachea and/or lungs.
Do not use in the absence of ruminal motility.

Withdrawal times:
None.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
500 ml longneck bottles.
**DUFA-START**

**Composition:**
Contains per litre solution:
Magnesium sulphate .................................. 0.91 g
Citric acid ................................................... 6.56 g
Sodium chloride ....................................... 19.63 g
Potassium chloride ................................. 164.85 g
Riboflavin sodium phosphate ..................... 0.07 g

**Indications:**
Prevention of dehydration and loss of vitality in poultry in periods of stress (disease, vaccination, high ambient temperatures, rapid weight gains) by stimulation of water consumption and feed intake.

**Contraindications:**
None.

**Dosage and administration:**
For oral administration in drinking water.
1 litre per 500 litres of drinking water.
Dose per 1000 animals per day per age category:
Broilers:
1 week ........................................................ 30 ml
2 weeks....................................................... 60 ml
3 weeks....................................................... 90 ml
4 weeks and up ........................................ 120 ml
Layers and breeding stock:
1-5 weeks ................................................... 30 ml
6-10 weeks .................................................. 50 ml
11-15 weeks ............................................... 80 ml
16 weeks and up................................. 120-200 ml
Shake well before use.
Once diluted in water Dufa-Start should be used immediately.

**Withdrawal times:**
None.

**Storage conditions:**
Store dry and below 25°C. Do not freeze.

**Packing:**
1 litre bottles and 5 litre cans.
**DUFAMIN ORAL**

**Composition:**
Contains per ml solution:
- Phosphor ................................................ 92.8 mg
- Manganese ............................................. 10.8 mg
- Iron ........................................................... 9.7 mg
- Zinc ............................................................ 10 mg
- Sodium ..................................................... 5.5 mg
- Cobalt .................................................... 124 mcg
- Copper ...................................................... 5.6 mg
- Calcium .................................................... 15.3 mg
- Choline chloride ...................................... 82.5 mg

**Description:**
Dufamin Oral is an oral solution containing essential minerals, trace elements and choline. These are essential for many metabolic functions, especially for bone composition, maintenance of osmotic pressure and enzyme activation. Choline and its metabolites are essential for structural integrity and signalling roles for cell membranes, cholinergic neurotransmission (acetylcholine synthesis) as well as being a major source of methyl groups for metabolic reactions.

**Indications:**
Treatment and prevention of essential mineral, trace elements and choline deficiencies in poultry, caused by:
- increased requirements due to stress or illness, growth, production or performance.
- decreased intake due to feed quality, inappetence or general weakness.

**Dosage and administration:**
For oral administration in drinking water.

Recommended dose....... 500 – 1000 ml per 1000 litres of water

Shake well before use. Once diluted, Dufamin Oral should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
None.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
1 litre bottles.
**DUFAMINOVIT ORAL**

**Composition:**
Contains per ml oral solution:
- Retinyl palmitate (A) .................. 12,200 IU
- Cholecalciferol (D3) .................... 3,200 IU
- α-Tocopherol acetate (E) ............. 3.35 mg
- Menadione sodium bisulfite (K3) .. 1.05 mg
- Thiamine HCl (B1) ......................... 2.0 mg
- Pyridoxine HCl (B6) ...................... 1.3 mg
- Ascorbic acid (C) ......................... 4.0 mg
- Dextrosepanthenol ....................... 4.05 mg
- Alanine .................................... 1.0 mg
- Arginine ................................... 0.5 mg
- Aspartic acid ............................. 0.55 mg
- Glutamic acid ............................ 1.1 mg
- Glycine ................................... 2.7 mg

Histidine .................................. 0.135 mg
Isoleucine ................................. 0.225 mg
Leucine .................................... 0.425 mg
Lysine ...................................... 0.45 mg
Methionine ................................ 0.135 mg
Phenylalanine ............................. 0.25 mg
Proline ...................................... 1.65 mg
Serine ....................................... 0.1 mg
Threonine .................................. 0.25 mg
Tryptophan ................................ 0.02 mg
Tyrosine .................................... 0.115 mg
Valine ...................................... 0.34 mg

**Description:**
An adequate supply of vitamins and essential amino acids is essential to build lean muscle mass, to improve health of joints, skin, coat and the immune system, and to enhance strength, energy, fertility, production and performance.

**Indications:**
Treatment and prevention of vitamin and/or amino acid deficiencies in swine and poultry.

**Dosage and administration:**
For oral administration in drinking water. Shake well before use.
Swine ................................................ 2 ml per litre of water
Poultry .......... 1 ml per 5 litres of water, for 5-10 days
Once diluted, Dufaminovit Oral should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
None.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml and 1 litre bottles.
DUFAVIT AD3E 100/20/20 ORAL

Composition:
Contains per ml solution:
Retinyl palmitate (A).............................100,000 IU
Cholecalciferol (D3) .............................20,000 IU
α-Tocopherol acetate (E) ..........................20 mg

Description:
Vitamin A, D3 and E are essential for optimal growth and production.
Vitamin A contributes to healthy immune function, bone health and cell integrity.
Vitamin D helps regulate calcium and phosphorus, and contributes to bone health, immune function and cell growth.
Vitamin E functions as an antioxidant to neutralize free radicals, and contributes to healthy immune function and maintenance of cardiovascular health.

Indications:
Treatment and prevention of vitamin A, D3 and/or E deficiencies in livestock.

Dosage and administration:
For administration in drinking water.
Recommended dose levels:
- Cattle: 2.5-10 ml per 100 kg body weight, for 3-5 days, as required;
- Horses: 1-2 ml per 100 kg body weight, for 3-5 days, as required;
- Sheep and goats: 3 ml per 50 kg body weight, for 3-5 days, as required;
- Swine: 2-3 ml per 100 kg body weight, for 3-5 days, as required;
- Poultry: 150-300 ml per 1000 litres of drinking water, for 5-7 days, as required.

Once diluted, Dufavit AD3E 100/20/20 Oral should be used immediately and refreshed every 24 hours for the duration of the treatment.
SHAKE WELL BEFORE USE!

Withdrawal times:
None.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml and 1 litre bottles.
**DUFAVIT E 15% + SEL ORAL**

**Composition:**
Contains per ml solution:
α-Tocopherol acetate (Vit. E) ................... 150 mg
Sodium selenite .................................. 0.15 mg

**Description:**
Dufavit E 15% + Sel Oral is a solution for oral administration and contains vitamin E and selenium. Vitamin E and selenium are antioxidants necessary for the prevention of tissue damage. Vitamin E and selenium are also essential for optimal function of reproductive, muscular, circulatory, nervous and immune systems. Deficiencies are characterised by muscular dystrophy, myocardial disease, reproductive disorders, poor growth rates and feed utilisation as well as decreased vitality and impaired immune response.

**Indications:**
Treatment and prevention of vitamin E and Selenium deficiency in poultry, calves and swine, caused by:
- increased requirements due to stress or illness, growth, production or performance.
- decreased intake due to feed quality, inappetence or general weakness.
Prevention of iron toxicity in young piglets.

**Dosage and administration:**
For oral administration in drinking water.
Poultry, broilers ........................................ 0.5 ml per litre of drinking water
Poultry, layers and breeders .................. 0.5 - 1 ml per litre of drinking water
Calves, piglets and all other species ............. 1 ml per 10 kg body weight

Shake well before use.
Once diluted, Dufavit E 15% + Sel Oral should be used immediately and refreshed every 24 hours for the duration of the treatment.
Dufavit E 15% + Sel Oral should be administered at least 24 hours prior to an iron injection to aid in the prevention of iron toxicity in young piglets.

**Withdrawal times:**
None.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml and 1 litre bottles.
**ELECTROLYSOL ORAL**

**Composition:**
Contains per ml solution:
- Dextrose .................................... 280 mg
- Sodium chloride ......................... 110 mg
- Glycine ......................................... 45 mg
- Sodium dihydrogen phosphate ..... 22 mg
- Potassium chloride .................... 13.5 mg
- Sodium citrate ............................... 5 mg

**Description:**
Diarrhoea is known to cause enormous economic losses in livestock, most notably in young calves and piglets. Diarrhoea is associated with the loss of water (dehydration), the loss of electrolytes (mainly Na^+\, Cl^- and to a lesser extent K^+ and HCO_3^-) and with a metabolic acidosis (acidification as a result of excessive lactic acid production). The cause of diarrhoea may be both infectious and non-infectious. Because the aetiology often is unknown and a causal treatment of the diarrhoea may not be achievable, symptomatic treatment is indicated.

Electrolysol Oral is a first-choice therapy due to its efficacy in all bacterial, viral and non-infectious forms of diarrhoea. This oral rehydration solution comprises water, electrolytes and absorption-promoting substances, as a result of which dehydration, loss of electrolytes and acidosis are controlled effectively.

**Indications:**
Prevention and treatment of dehydration caused by diarrhoea in calves, cattle, goats, poultry, sheep and swine as well as companion animals and horses.

**Contraindications:**
Do not force-feed due to risk of aspiration pneumonia.

**Dosage and administration:**
For oral administration.
- Poultry ....................... 1 litre per 750-1000 litres of drinking water for 2 to 4 days
- All other species .......... 50 ml per 1000 ml of drinking water for 2 to 4 days

Anorexic animals may require administration by oesophageal or gastric intubation.

Once diluted, Electrolysol Oral should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
None.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
1 litre bottles.
**LIVER TONIC ORAL**

**Composition:**
Contains per ml solution:
- Acetyl methionine ...................... 17.4 mg
- Choline chloride ........................... 10 mg
- Cyanocobalamin .................... 0.006 mcg
- Calcium pantothenate ............... 581 mcg
- Nicotinamide ............................... 1.1 mg
- Pyridoxine HCl ...................... 4.75 mcg
- Riboflavin sodium phosphate .. 4.75 mcg
- Thiamine HCl ............................ 0.95 mg
- Biotin ....................................... 2 mg
- Folic acid .................................. 10 mcg
- Ascorbic acid............................. 35 mcg
- α-Tocopherol acetate ................. 35 mcg

**Description:**
The liver functions as a processing plant, transforming, storing and detoxifying raw materials for the rest of the body. Liver impairment may lead to bleeding disorders, jaundice, reduction of growth and feed uptake, altered mental status and a wide range of secondary health issues such as skin disorders and coat abnormalities. Liver Tonic Oral is formulated to optimise liver function and aid in the prevention of toxic liver syndromes.

**Indications:**
An aid in the treatment and prevention of liver dysfunction and toxic liver syndromes in all animal species.

**Contraindications:**
None.

**Dosage and administration:**
For oral administration.
- Large animals (≥100 kg) ...................... 5 ml per 100 kg body weight per day
- Small animals (<100 kg) ...................... 1 ml per 10 kg body weight per day
- In drinking water (incl. poultry) ............. 1 litre per 2000 litres of drinking water, continuously

Once diluted, Liver Tonic Oral should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
None

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
1 litre bottles.
MULTIVIT EXTRA

Composition:
Contains per ml solution:
Retinyl palmitate (A) .................... 50.000 IU  Folic acid........................................ 0.05 mg
Cholecalciferol (D3) .................... 12,000 IU  Ascorbic acid (C) ............................. 20 mg
α-Tocopherol acetate (E) ............... 20 mg  Nicotinamide .................................. 0.5 mg
Thiamine HCl (B1) ........................ 1.5 mg  Dexpanthenol ................................. 1 mg
Riboflavin sodium phosphate (B2) .... 0.1 mg  Menadione sodium bisulfite (K3) ....... 1 mg
Pyridoxine HCl (B6) .................... 0.25 mg  Biotin............................................. 0.01 mg
Cyanocobalamin (B12).................. 0.01 mg

Indications:
Treatment and prevention of vitamin deficiencies in cattle, sheep, Swine and poultry, caused by:
− increased requirements due to stress or illness, growth, production or performance.
− decreased intake due to feed quality, inappetence or general weakness.

Dosage and administration:
For oral administration in drinking water.
Calves, bulls and lactating cows ..... 20 ml per 100 litres of water
Chicks and broilers .................... 12 ml per 1,000 litres of water
Layers ........................................ 40 ml per 1,000 litres of water
Piglets ....................................... 5 ml per 100 litres of water
Swine ........................................ 10 ml per 100 litres of water
Lambs and sheep ....................... 5 ml per 100 litres of water
Shake well before use. Once diluted, Multivit Extra should be used immediately and refreshed every
24 hours for the duration of the treatment.

Withdrawal times:
None.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml and 1 litre bottles.
DUFA-CALCIO 50

Composition:
Contains per ml solution:
Calcium gluconate 1H2O ...................... 31 mg
Calcium borogluconate ....................... 429 mg
Calcium hydroxide .............................. 13.2 mg
Magnesium chloride 6H2O ................. 65 mg
2-Aminoethyl-2H-phosphate ................... 6 mg
Equivalent to Ca 45.6 mg, Mg 7.8 mg and P 1.32 mg per ml.

Description:
Dufa-Calcio 50 is a concentrated solution containing calcium, magnesium and phosphorus for intravenous or subcutaneous administration.
The product does not contain calcium chloride or free boric acid and is therefore less strongly ionised. This results in a lower risk of disturbances of the cardiovascular system when administered i.v. and less tissue irritation when administered s.c.

Indications:
Disorders caused by calcium and magnesium deficiencies, e.g. parturient paresis, eclampsia and uterine inertia, in cattle, horses, sheep, goats, swine, dogs and cats.

Contraindications:
Ventricle fibrillation and above normal calcium serum levels, myocardial damage or heart block.

Dosage and administration:
For intravenous or subcutaneous administration.
Cows and mares ......................... 100-150 ml per 500 kg body weight
Ewes, calves, goats and swine .......... 15 ml per 50 kg body weight
Piglets ................................................ 1.5 ml per 5 kg body weight
Dogs ..................................................... 2 ml per 10 kg body weight
Cats ..................................................... 0.5 ml per 2.5 kg body weight

Side effects:
Mild to severe injection site reactions.

Precautions and warnings:
Use very cautiously in patients with impaired heart or kidney function.
Dose according to severity of hypocalcaemia. Inject slowly when giving Dufa-Calcio 50 i.v.!
Stop administration if signs of hypercalcaemia become evident. Divide subcutaneous dose over several injection sites and massage to facilitate absorption.

Withdrawal times:
0 days.
Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml vials.
**DUFAFOSFAN 10% + B12 INJ**

**Composition:**
Contains per ml solution:
Butafosfan ................................................ 100 mg
Cyanocobalamin (B12) .......................... 0.055 mg

**Description:**
Butafosfan, a phosphonic acid compound, stimulates appetite and reduces the physiological effects of stress.
Vitamin B12 (cyanocobalamin) is an essential component of carbohydrate and lipid metabolism, and is required for the formation of red blood cells and the amino acid methionine.

**Indications:**
Debilitation in cattle, camels, horses, sheep, swine, poultry, dogs and cats, caused by chronic or acute illness, or metabolic disturbances.

**Contraindications:**
None.

**Dosage and administration:**
For intravenous, intramuscular or subcutaneous administration.
Therapeutic dose per animal:
Horses and cattle ................... 5 - 25 ml
Calves and foals .................... 5 - 12 ml
Goats and sheep ................... 2.5 - 5 ml
Lambs and kids .................... 1.5 - 2.5 ml
Swine ................................. 2.5 - 10 ml
Piglets ............................... 1 - 2.5 ml
Dogs and cats ...................... 0.5 - 5 ml

For administration in drinking water:
Poultry ........................... 1 – 3 ml per litre
Repeat daily if required.
For prophylaxis, administer 50% of the therapeutic dose.
In chronic cases, administer 50% of the therapeutic dose every 1 – 2 weeks.

**Side effects:** Mild and transient injection site reactions may occur.

**Withdrawal times:** 0 days.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml vials.
**DUFAVIT AD3E 80/40/20 INJ**

**Composition:**
Contains per ml solution:
- Retinyl palmitate (A)..............................80,000 IU
- Cholecalciferol (D3) ..............................40,000 IU
- α-Tocopherol acetate (E) ......................... 20 mg

**Description:**
Vitamin A, D3 and E are essential for optimal growth and production.
Vitamin A contributes to healthy immune function, bone health and cell integrity.
Vitamin D helps regulate calcium and phosphorus, and contributes to bone health, immune function and cell growth.
Vitamin E functions as an antioxidant to neutralize free radicals, and contributes to healthy immune function and maintenance of cardiovascular health.

**Indications:**
Treatment and prevention of vitamin A, D3 and/or E deficiencies in livestock.

**Contraindications:**
Use with caution in early pregnancy.

**Dosage and administration:**
For intramuscular administration.
- Cattle, horses......................... 10 – 20 ml
- Calves, foals ................................. 5 ml
- Swine........................................ 5 – 8 ml
- Piglets...................................... 1 – 3 ml
- Sheep, goats............................... 4 ml
Single injection, if repeated do not administer more often than once a week.

**Side effects:**
Mild and transient injection site reactions may occur.

**Withdrawal times:**
0 days.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml vials.
IRON DEXTRAN 10% PLUS

Composition:
Contains per ml solution:
Iron (Iron III-hydroxide-dextran complex).......100 mg
Cyanocobalamin (B12)...............................100 mcg

Description:
Iron Dextran 10% Plus combines iron dextran and vitamin B12 (cyanocobalamin).
Iron is essential for the formation of red blood cells and haemoglobin, and contributes to normal functioning of metabolism and immune systems.
Vitamin B12 is a water-soluble vitamin that plays a vital role in the activity of several enzymes in the body. It is critical in the development of genetic material and the production of red blood cells, and contributes to normal functioning of metabolism and nervous and immune systems.

Indications:
Treatment and prevention of iron deficiencies in piglets and calves.

Contraindications:
Vitamin E and/or selenium deficiencies.

Dosage and administration:
For subcutaneous (s.c.) or intramuscular (i.m.) administration.
Piglets.......................... 2 ml i.m. in rump musculature
Calves.................................. 4 - 8 ml s.c. in a fold of skin over the neck

Side effects:
Intramuscular iron injections can lead to persistent staining of muscle tissue.
Pain, inflammation and abscesses at the injection site and sudden death may occur.

Withdrawal times:
0 days.

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
100 ml vials.
IRON DEXTRAN 20% PLUS

Composition:
Contains per ml solution:
Iron (Iron III-hydroxide-dextran complex)........200 mg
Cyanocobalamin (B12).............................100 mcg

Description:
Iron Dextran 20% Plus combines iron dextran and vitamin B12 (cyanocobalamin). Iron is essential for the formation of red blood cells and haemoglobin, and contributes to normal functioning of metabolism and immune systems. Vitamin B12 is a water-soluble vitamin that plays a vital role in the activity of several enzymes in the body. It is critical in the development of genetic material and the production of red blood cells, and contributes to normal functioning of metabolism and nervous and immune systems.

Indications:
Treatment and prevention of iron deficiencies in piglets and calves.

Contraindications:
Vitamin E and/or selenium deficiencies.

Dosage and administration:
For subcutaneous (s.c.) or intramuscular (i.m.) administration.
Piglets.............................. 1 ml i.m. in rump musculature
Calves...................... 2 - 4 ml s.c. in a fold of skin over the neck

Side effects:
Intramuscular iron injections can lead to persistent staining of muscle tissue. Pain, inflammation and abscesses at the injection site and sudden death may occur.

Withdrawal times:
0 days.

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
100 ml vials.
MEGAVIT B-COMPLEX + C INJ

Composition:
Contains per ml solution:
Cyanocobalamin (B12) ......................... 140 mcg
Dexpanthenol (B5) ...................... 13 mg
Nicotinamide (B3) ................. 26 mg
Pyridoxine HCl (B6) ................. 6.5 mg
Riboflavin sod. phosph.(B2) ............. 500 mcg
Thiamine HCl (B1) ................. 13 mg
Ascorbic acid (C) .................. 40 mg

Description:
B-complex vitamins are essential in the metabolism of carbohydrates, proteins and lipids. Vitamin C is essential for the formation and maintenance of the normal function of skeletal tissues.

Indications:
Treatment and prevention of vitamin B and/or C deficiencies in horses, cattle, swine, sheep and cats, particularly in times of illness, convalescence and general unthriftiness.

Contraindications:
Hypersensitivity to any of the active ingredients.

Dosage and administration:
For intramuscular or subcutaneous administration, single dose.
Always adhere to aseptic injection technique.
Horses and cattle ................... 10 – 25 ml
Swine ................................ 2.5 – 10 ml
Sheep ................................ 1.5 – 2.5 ml
Cats .................................. 0.25 – 0.5 ml
The dose should be repeated 2-3 times weekly as required.
The dose volume should not exceed 20 ml at any one injection site.

Side-effects:
Occasionally, swelling at the injection site can occur, which should resolve without further treatment.

Withdrawal times:
0 days.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml vials.
**MULTIVIT INJ**

**Composition:**
Contains per ml solution:
- Retinyl palmitate (A) ................ 50,000 IU
- Cholecalciferol (D3) ................ 25,000 IU
- α-Tocopherol acetate (E) ............... 4 mg
- Thiamine HCl (B1) ...................... 2.5 mg
- Riboflavin sodium phosphate (B2) .................... 2.1 mg
- Pyridoxine HCl (B6) ................... 1.25 mg
- Cyanocobalamin (B12) .............. 0.03 mg
- Ascorbic acid (C) ...................... 2 mg
- Nicotinamide (B3) .................... 12.5 mg
- Dexpanthenol (B5) .................... 3 mg

**Indications:**
Treatment and prevention of vitamin A, B1, B2, B3, B5, B6, B12, C, D3 and/or E deficiencies in cattle, horses, sheep, goats and swine, particularly in times of illness, convalescence and general unthriftiness.

**Contraindications:**
None.

**Dosage and administration:**
For subcutaneous or intramuscular administration, single dose.
- Horses and cattle ..................... 8 – 12 ml
- Foals and calves ....................... 3 – 5 ml
- Sheep and goats ....................... 3 – 5 ml
- Lambs .................................. 2 – 3 ml
- Piglets (<10 kg) ...................... 1 ml
- Piglets (10 – 30 kg) ................. 1 – 3 ml
- Sows ....... .......................... 4 – 5 ml
The dose should be repeated 2-3 times weekly as required.

**Side effects:**
Mild and transient injection site reactions may occur.

**Withdrawal times:**
0 days.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml vials.
**DUFACOC-200 PLUS W.S.P.**

**Composition:**
Contains per g water-soluble powder:
- Amprolium HCl ......................................... 250 mg
- Menadione sodium bisulphite ....................... 5 mg
- Sulfadiazine sodium .................................. 250 mg

**Description:**
Amprolium is an anti-coccidial drug with activity against *Eimeria tenella, E. necatrix, and E. acervulina*. Amprolium acts by interfering with thiamine metabolism in the parasite. Sulfadiazine is a chemotherapeutic with bacteriostatic action against many gram-negative and gram-positive bacteria. Its coccidiostatic spectrum of activity includes *Eimeria* spp. (*E. necatrix, E. maxima, E. acervulina, E. brunetti*, etc.). Vitamin K in the form of menadione is added for the prevention of hemorrhagic disease. In combination with sulfadiazine and amprolium, Vitamin K exhibits a synergistic action against most of the common species of the *Eimeria* parasite.

**Indications:**
Treatment and prevention of coccidiosis in poultry, lambs, calves and piglets.

**Contraindications:**
Hypersensitivity to any of the active substances. Do not use in animals with impaired kidney function.

**Dosage and administration:**
For oral administration in drinking water.
- **Poultry:** Therapeutic dose .............. 100 g per 200 litres of water, for 5 – 7 days (equivalent to 2500 chickens of 5 weeks of age or 1500 chickens of 10 weeks of age or 800 layers)
- Prophylactic dose .............. 100 g per 400 litres of water, for 3 – 4 days
- **Lambs, calves and piglets** ........... 1 g per 10 kg body weight, for 5 days preferably as a drench or in drinking water.

Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Precautions and warnings:**
Use caution when administering in drinking water during hot weather. Water consumption will increase, which may result in overdose.

**Withdrawal times:**
- Meat and offal: 10 days
- Do not use in layers producing eggs for human consumption.
Storage conditions:
Store dark, dry and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
**LEVORAL 75% W.S.P.**

**Composition:**
Contains per g water soluble powder:
Levamisole (as hydrochloride) ............... 750 mg

**Description:**
Levamisole is an imidazothiazole anthelmintic and elicits spastic muscle paralysis in the parasite. Its antinematodal activity is effective against lung and gastro-intestinal nematodes.

**Indications:**
Endoparasitic infections in cattle, sheep, swine and poultry, caused by parasites susceptible to levamisole.

**Cattle and Sheep:** Haemonchus spp., Trichostrongylus spp., Ostertagia spp., Cooperia spp., Nematodirus spp., Bunostomum spp., Oesophagostomum spp., Chabertia spp., and Dictyocaulus spp. (lungworm) spp..

**Swine:** Metastrongylus elongatus (lungworm) and the gastrointestinal nematodes Ascaris suum and larva migrans, Hysterstrongylus rubidis, Strongyloides spp., Oesophagostomum dentatum and Trichuris suis.

**Poultry:** Ascaridia spp. and Capillaria spp.

**Contraindications:**
Hypersensitivity to levamisole.

**Dosage and administration:**
For oral administration in drinking water. The recommended doses are as follows:

**Cattle, sheep and swine:** 1 g per 100 kg b.w.

**Poultry:** 15-20 g per 100 litres of drinking water

Medicated water should be used immediately.

**Side effects:**
At recommended doses levamisole rarely causes side effects. At higher doses transient symptoms may appear, these include head shaking, salivation and slight muscle tremors. These are more likely to occur in cattle than sheep. Shock has been observed in animals with serious and heavy worm infections after repeated treatment.

**Interactions:**
Do not combine with other drugs with a 'nicotine-like' action (e.g., pyrantel and morantel).

**Precautions and warnings:**
The use of disposable gloves and facemasks during preparation is recommended. Dose accurately to prevent development of resistance caused by underdosage.
Withdrawal times:
Meat and offal: 7 days
Eggs: 3 days

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
100 sachets and 1 kg jar.
**DUFACOX 2.5% ORAL**

**Composition:**
Contains per ml solution:
Toltrazuril .......................................................... 25 mg

**Description:**
Dufacox 2.5% Oral is a anticoccidial which is active against all intracellular development stages of coccidia. Toltrazuril is effective in the treatment of coccidiosis in poultry, turkeys, calves, lambs, kids and piglets caused by different species of *Eimeria spp*.

**Indications:**
Coccidiosis of all stages like schizogony and gametogony stages of different *Eimeria spp.* in chickens, turkeys, calves, lambs, kids and piglets.

**Contraindications:**
Do not administer to animal with an impaired liver and/or renal function.

**Side effects:**
At high dosages in laying hens egg-drop and in broilers growth inhibition and polyneuritis can occur.

**Dosage and administration:**
For oral administration via drinking water.
Chickens and turkeys: 1 litre per 1000 litres of drinking water continuous medication for 2 days (7.5 mg/kg body weight)
Calves, lambs, kids and piglets: 0.8 ml per kg body weight for 2 days (20 mg/kg body weight).

During treatment the medicated water should be the only source of drinking water!
Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Withdrawal times:**
Meat and offal: 19 days (poultry and turkeys)
42 days (sheep and goats)
63 days (calves)
77 days (pigs)
Do not use in breeders in production or layers producing eggs for human consumption.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml bottles and 1 litre cans.
**DUFALBEN 10% ORAL SUSP**

**Composition:**
Contains per ml suspension:
Albendazole ............................................. 100 mg

**Description:**
Effective broad spectrum anthelmintic, for the control of roundworms, tapeworms, and flukes of domestic animals.

**Indications:**
Endoparasitic infections in cattle, sheep and goats, caused by parasites susceptible to albendazole.

Larval and adult stages of *Haemonchus, Ostertagia, Trichostrongylus, Nematodirus, Cooperia, Bunostomum*; adult stages of *Oesophagostomum, Chabertia* and *Strongyloides, Dictyocaulus* spp (lungworm), *Moniezia* spp (tapeworm) and *Fasciola hepatica* (adult liver fluke).

**Contraindications:**
Hypersensitivity to albendazole or to any of the excipients. Do not administer to animals with impaired hepatic function.

**Dosage and administration:**
For oral administration.
Recommended general dose: 3 ml per 40 kg body weight (ca. 7.5 mg Albendazole / kg b.w.)
For control of adult liver flukes (*Fasciola hepatica*): 4 – 6 ml per 40 kg body weight (ca. 10-15 mg Albendazole / kg b.w.)

SHAKE WELL BEFORE USE!
The body weight of animals should be determined with accuracy.

**Precautions and warnings:**
Avoid administration during early pregnancy (first 45 days).
Dose accurately to prevent development of resistance caused by underdosing.

**Withdrawal times:**
Meat and offal: 12 days
Milk: 4 days

**Storage conditions:**
Store below 25°C. Do not freeze.

**Packing:**
1 litre cans.
DUFAMEC 1.02% ORAL

Composition:
Contains per ml oral solution:
Ivermectin ............................................... 10.2 mg

Description:
Oral solution containing ivermectin, a broad spectrum anthelmintic for the control of a wide variety of endo- and ectoparasites.

Indications:
Endo- and ectoparasitic infections in horses, sheep, goats and poultry, caused by parasites susceptible to ivermectin.

Horses: Strongylus vulgaris (adult and arterial larval stages), S. edentatus (adult and tissue stages), S. equinus (adults), Triodontophorus spp. (adults), Cyathostomum, Cylicocylus spp., Cylicostephanus spp., Cylicodontophorus spp., Gyalocephalus spp. (adults and non-inhibited mucosal larvae), Parascaris equorum (adults and larvae), Oxyuris equi (larvae), T. axei (adults), Strongyloides westeri (adults), Habronema spp. (adults), Onchocerca spp. (microfilariae), Dictyocaulus arnfieldi (adults and larvae), Gastrophilus spp. (larvae)

Sheep: Haemonchus contortus, Ostertagia circumcincta, Trichostrongylus spp., Cooperia spp., Nematodirus spp. including N. battus, Strongyloides papillosus, Oesophagostomum spp. and adult Charbertia ovina. Inhibited larval stages and benzimidazole resistant strains of H. contortus and O. circumcincta are also controlled; Dictyocaulus filaria, Oestrus ovis.


Poultry: Ascaridia spp., Capillaria spp., Cnemidocoptes mutans and subcutaneous mite, lice infestations.

Contraindications:
Hypersensitivity to ivermectin.

Dosage and administration:
For oral administration.
The recommended dose is 0.2 mg ivermectin per kg body weight.
Horses .................................................... 1 ml per 50 kg body weight
Sheep and goats..................................... 0.2 ml per 10 kg body weight
In sheep and goats, administer with a dosing gun. The dosing gun should be calibrated accurately to ensure precise dosing of young sheep and goats.
Poultry .... 40 ml per 250 – 300 litres of water (ca. 1000 birds) (equivalent to a level of 0.35 – 0.40 mg ivermectin per kg body weight).
Shake well before use.
**Side effects:**
Hypersensitivity symptoms caused by immunological reactions to dying or dead microfilariae and migrating larvae can occur.

**Precautions and warnings:**
Dose accurately to prevent development of resistance caused by underdosing.

**Withdrawal times:**
Meat and offal: 35 days (horses)
              14 days (sheep, goats, poultry)
Eggs: 10 days
Do not use in animals producing milk for human consumption.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml and 1 litre bottles.
DUFAMEC-P HORSEWORMER

Composition:
Contains per syringe of 25 g:
Ivermectin ............................................... 120 mg
Praziquantel............................................. 900 mg

Description:
Ivermectin is a broad spectrum anthelmintic for the control of a wide variety of endoparasites. Praziquantel is an anthelmintic effective against flatworms.

Indications:
Endoparasitic infections in horses, caused by parasites susceptible to ivermectin or praziquantel.
Strongylus vulgaris (adult and arterial larval stages), Strongylus edentatus (adult and tissue stages), Strongylus equinus (adult), Triodontophorus spp. (adult), Cyathostomum, Cylicocylus spp., Cylicostephanus spp., Cylicodontophorus spp., Gyalcephalus spp. (adult and non-inhibited mucosal larvae), Parascaris equorum (adult and larvae), Oxyuris equi (larvae), Trichostrongylus axei (adult), Strongyloides westeri (adult), Habronema spp. (adult), Onchocerca spp. (microfilariae), Dictyocaulus arnfieldi (adult and larvae), Gastrophilus spp. (larvae), Anoplocephala perfoliata, Anoplocephala magna and Paranoplocephala mamillana.

Contraindications: Hypersensitivity to ivermectin or praziquantel.

Dosage and administration:
For oral administration.
The recommended dose is 0.2 mg ivermectin and 1.5 mg praziquantel per kg body weight. This is equivalent to 1 syringe per 600 kg.
Make sure the animal's mouth is free of feed, adjust the dosing ring on the plunger to set the calculated dosage and administer the paste into the mouth by inserting the nozzle of the syringe through the interdental space and depositing the required amount on the back of the tongue. Elevate the animal's head for a few seconds after administration to ensure the dose is swallowed.

Side effects:
Horses with heavy Onchocerca microfilariae infection may experience swelling and itching after treatment. Destruction of large numbers of tapeworms may cause a mild transient colic and loose faeces. Consult your veterinarian if these symptoms persist.

Precautions and warnings:
Dose accurately to prevent development of resistance caused by underdosing.

Withdrawal times:
Meat and offal: 35 days. Do not use in mares producing milk for human consumption.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
25 ml injector (25 markings)
**DUFAMPROL 50% ORAL**

**Composition:**
Contains per ml oral solution:
Amprolium hydrochloride.............................................500 mg

**Description:**
Amprolium is a coccidiostat used mainly in poultry. It is a thiamine antagonist which blocks the thiamine transporter of Eimeria species and thus it interfere with the metabolism of carbohydrates in coccidia. Rapidly dividing coccidia have a high requirement for thiamine and deficiency will lead to starvation and finally to the death of coccidian cell. However, Amprolium acts on second generation of schizonts and coccidia is killed later in the life cycle. Amprolium is mainly used for water treatment during clinical outbreaks.

**Indications:**
Treatment and prevention of coccidiosis caused by species of *Eimeria* susceptible to Amprolium in poultry: broilers, layers, pullets replacement, breeders (*E. tenella, E. acervuline, E. necatrix* etc.), turkeys (*E. adenoides, E. meleagris, E. gallopavonis* etc.). It might be also used as aid in treatment of coccidiosis produced by susceptible *Eimeria* species in calves (*Eimeria zuemii, E. bovis*, etc.), lambs and kids (*E. ovinoidalis, E. christenseni* etc.).

**Contraindications:**
Hypersensitivity to amprolium.

**Dosage and administration:**
For oral administration in drinking water.

**Poultry**
Treatment:
- Relative normal outbreak: 25 ml per 100 litres of drinking water
- Severe outbreak: 50 ml per 100 litres of drinking water
Prevention of re-infection (maintenance treatment):
- 10 ml per 100 litres of drinking water

**Calves, lambs, and kids**
Treatment:
- 2 ml per 100 kg bodyweight for 5 days (10 mg Amprolium HCl per kg bodyweight).
Prevention of re-infection (maintenance treatment):
- 1 ml per 100 kg bodyweight, for 21 days (5 mg Amprolium HCl per kg bodyweight).

In ruminants administration via drinking water is not considered safe, so that individual drenching is strongly recommended.
Medicated water should be refreshed every 24 hours for the duration of the treatment. No other source of drinking water should be available during the period of treatment. For a correct dosage and to avoid sub-therapeutic doses, the body weight should be determined with accuracy.

**Side effects:**
In laying hens an egg-drop can be observed. Prolonged high dosage administration could lead to thiamine (vitamin B1) deficiency, with poor growth and development, gastrointestinal disturbances, loss of appetite, anorexia, muscle weakness and cramp.

**Precautions and warnings:**
Administered treatment should be combined with suitable animal husbandry measures. If a visible improvement is not observed after 3 days of treatment, the symptomatology picture should be reevaluated to determine evolution of other disease.

**Withdrawal times:**
Poultry:
- Meat and offal: 0 days
- Eggs: 0 days
Calves, lambs and kids:
- Meat and offal: 3 days

**Storage conditions:**
Store in dry, dark and below 25°C. Do not freeze.

**Packing:**
1 litre bottles.
DUFASCIO 5% ORAL SUSP

Composition:
Contains per ml suspension:
Triclabendazole.......................................... 50 mg

Description:
Dufascio 5% oral is a suspension for oral administration containing triclabendazole, an anthelmintic with high efficacy against both immature and adult liver flukes (Fasciola hepatica).

Indications:
Liver fluke infections in cattle, sheep and goats.

Contraindications:
Hypersensitivity to triclabendazole.

Dosage and administration:
For oral administration.
Shake well before use.

Recommended dose:
Cattle ........................... 12 ml per 50 kg body weight
(equivalent to12 mg triclabendazole per kg)
Sheep and goats .............. 1 ml per 5 kg body weight
(equivalent to10 mg triclabendazole per kg)

Precautions and warnings:
Dose accurately to prevent development of resistance caused by underdosing.

Withdrawal times:
Meat and offal: 42 days
Do not use in animals producing milk for human consumption.

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
1 litre bottles.
**DUFAZAN PLUS**

**Composition:**
Contains per ml suspension:
- Levamisole HCl ................................. 30 mg
- Oxyclozanide ..................................... 60 mg

**Description:**
Dufazan Plus is a bright yellow suspension containing levamisole and oxyclozanide. This combination is a broad-spectrum anthelmintic as well as a fasciolicide, active against almost all mature and immature stages of nematodes, lungworms and *Fasciola* spp in cattle, sheep and goat.

**Indications:**

**Contraindications:**
Hypersensitivity to levamisole or oxyclozanide.

**Dosage and administration:**
For oral administration. Administration with drenching gun is recommended.
Recommended dose 1 ml per 4 kg body weight (ca. 7.5 mg Levamisole and 15 mg Oxyclozanide per kg of body weight)
For a correct dosage and to avoid sub-therapeutic doses, the body weight should be determined with accuracy

**Side effects:**
At the recommended dose levamisole rarely cause side effects. At higher doses transient symptoms may appear, these include head shaking, salivation and slight muscle tremors. These are more likely to occur in cattle than sheep. Oxyclozanide can cause slight softening of the faeces in cattle with sometimes increased frequency of defecation and transient inappetence.

**Interactions:**
Do not use within 14 days of organophosphorus compounds. Cattle may be treated simultaneously with phosmet, fenthion or metriphonate fly dressings.

**Precautions and warnings:**
Dose accurately to prevent development of resistance caused by underdosing.
Avoid skin contact. If skin contact occurs, wash immediately with soap and water. If eye contact occurs, flush eyes immediately with water and seek medical attention. Wash hands after use.
Withdrawal times:
Meat and offal: 28 days.
Do not use in animals producing milk for human consumption.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
1 litre bottles.
**DUFAMEC 0.5% POUR-ON**

**Composition:**
Contains per ml solution:
Ivermectin .................................................... 5 mg

**Description:**
Dufamec 0.5% Pour-On is a pour-on solution containing ivermectin, an antiparasitic agent with activity against many endo- and ectoparasites.

**Indications:**
For the treatment and control of gastrointestinal roundworms, lungworms, eyeworms, warbles, mites, sucking lice, ticks and horn flies in cattle.

**Contraindications:**
Do not inject or give orally, this product is for topical application only.
Do not apply directly onto mange scabs or other lesions; or to areas contaminated with mud or manure. Do not administer within 28 days of vaccination against lungworm infection.

**Dosage and administration:**
Determine the weight of each animal as accurately as possible before treatment.
Cattle ............. 1 ml per 10 kg (500 mcg ivermectin per kg)
Deliver the dose onto a clean, narrow strip on the back of the animal extending from withers to head of the tail, as directly to the skin as possible. If animals are to be treated collectively rather than individually, they should be grouped according to their body weight and dosed accordingly, in order to avoid under- or overdosing.

**Precautions and warnings:**
Do not smoke or eat while handling the product. Wash hands after use. During administration avoid contact with the eyes. Any spillage of the product into eyes should be washed out immediately.

**Withdrawal times:**
Meat and offal: 28 days
Do not use in animals producing milk for human consumption.
Do not use in non-lactating cows, including pregnant heifers, within 60 days prior to calving.

**Storage conditions:**
Store dark and below 25°C. Do not freeze. Keep away from heat, sparks, open flame and other sources of ignition.

**Packing:**
500 ml bottle equipped with dose indicator.
DUFAMEC 1% INJ

Composition:
Contains per ml solution:
Ivermectin .................................................. 10 mg

Description:
Dufamec 1% is an injectable solution containing ivermectin, an antiparasitic agent with activity against many endo- and ectoparasites.

Indications:
Endo- and ectoparasitic infections in cattle, sheep, swine, dogs and cats, caused by parasites susceptible to ivermectin.
Cattle: Gastrointestinal nematodes, lungworms, eye worms, warbles, mites and lice.
Sheep: Psoroptic mange (sheep scab), gastrointestinal nematodes, lungworms and nasal bots.
Swine: Gastrointestinal nematodes, lungworms, lice and mange mites.
Dogs: Gastrointestinal nematodes, infective-stage heartworms, microfilariae, arthropods and ear mites.
Cats: Gastrointestinal nematodes and lungworms.

Contraindications:
Hypersensitivity to ivermectine. Do not use in dog breeds with genetic sensibility to ivermectin (Old English Sheepdog, German Shepherd, Collie) or in other animal species as severe reactions may occur.

Dosage and administration:
For subcutaneous administration.
Recommended dose: 0.2 mg ivermectin per kg, swine 0.3 mg ivermectin per kg body weight.
Cattle .................................................. 1 ml per 50 kg body weight
Sheep ................................................. 0.5 ml per 25 kg body weight
Swine .................................................. 1 ml per 33 kg body weight
Dogs and cats................................. 0.1 ml per 5 kg body weight
Dose accurately to prevent development of resistance caused by underdosing.

Withdrawal times:
Meat and offal: 21 days (cattle and sheep)
28 days (swine)
Do not use in cows producing milk for human consumption.
Do not use in non-lactating dairy cows within 28 days prior to calving.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
50 ml and 500 ml vials.
**DUFAMEC-N 5/250 INJ**

**Composition:**
Contains per ml solution:
5 mg Ivermectin and 250 mg Nitroxinil.

**Description:**
Dufamec-N is an injectable solution containing ivermectin and nitroxinil. Ivermectin is an antiparasitic agent with activity against many endo- and ectoparasites. Nitroxinil is a fasciolicide, which is effective against fasciola hepatica and fasciola gigantica infestations, and has some activity against gastrointestinal nematodes such as Haemonchus contortus and hookworms.

**Indications:**
Endo- and ectoparasitic infections in cattle and sheep, caused by parasites susceptible to ivermectin and nitroxinil.

Cattle: Gastrointestinal nematodes, lungworms, liver flukes, eye worms, warbles, mites and lice.
Sheep: Gastrointestinal nematodes, lungworms, liver flukes, nasal bots and psoroptic mange.

**Dosage and administration:**
For subcutaneous administration.
General dosage: 0,2 mg ivermectin per kg bodyweight and 10 mg nitroxinil per kg bodyweight.
1 ml Dufamec-N per 25 kg bodyweight.

**Side effects:**
Injection site reactions.

**Precautions and warnings:**
Dose accurately to prevent development of resistance caused by underdosing.
Avoid using alongside other medications. Nitroxinil stains, avoid spilling.

**Withdrawal times:**
Meat and offal: 30 days
Do not use in animals producing milk for human consumption.
Do not use in non-lactating dairy cows within 28 days prior to calving.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml vial.
**DUFAQUONE 5% INJ**

**Composition:**
Contains per ml solution:
Buparvaquone............................................ 50 mg

**Description:**
Buparvaquone is a second generation hydroxynaphtaquinone active against both the schizont and piroplasm stages of *Theileria* spp., and can be used during the incubation period or when clinical signs are apparent.

**Indications:**
Theileriosis in cattle, caused by the intracellular protozoan parasites *Theileria parva* (East Coast fever, Corridor disease, Zimbabwean theileriosis) and *T. annulata* (tropical theileriosis).

**Contraindications:**
Hypersensitivity to buparvaquone. Do not administer by IV or SC injection. Theileriosis can interfere with the immune system, therefore a vaccination program should be postponed.

**Dosage and administration:**
For intramuscular administration, preferable in the neck musculature.
Recommended dose .................. 1 ml per 20 kg body weight
In severe cases the treatment may be repeated after 48-72 hours and the new injection should be administered on the other side of the neck, opposite to the first site of injection. The body weight should be determined with accuracy. Do not administer more than 10 ml in one injection site.

**Side effects:**
Localised, painless, oedematous swelling may occasionally be seen at the injection site.

**Withdrawal times:**
Meat and offal: 42 days
Milk: 2 days

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
50 ml vial.
**DUFANAZEN**

**Composition:**
Contains per 2.36 g granules:
Diminazene diaceturate ........................................ 1.05 g
Antipyrine............................................................ 1.31 g

**Description:**
Diminazene diaceturate is an antibacterial and antiprotozoal active against babesia, piroplasmosis and trypanosomiasis. Diminazene diaceturate is indicated for prophylaxis and treatment of babesia, piroplasmosis and trypanosomiasis in camel, cattle, cats, dogs, goats, horse, sheep and swine. Antipyrine, also known as phenazone, is an analgesic and antipyretic.

**Indications:**
Treatment and prevention of protozoan diseases in cattle, sheep, goats, horses and dogs.
- Trypanosomosis caused by *Trypanosoma congolense*, *T. vivax*, *T. brucei*, *T. evansi* and *T. equiperdum*.
- Piroplasmosis caused by *Babesia bovis*, *B. bigemina*, *B. ovis*, *B. motasi*, *B. divergens*, *B. caballi*, *B. equi*, *B. gibsoni* and *B. canis*.
- Theileriosis caused by *Theileria annulate*.

**Contraindications:**
Hypersensitivity to any of the active ingredients. Do not administer in animals with impaired renal and/or hepatic functions. Theileriosis can interfere with the immune system, therefore a vaccination program should be postponed.

**Dosage and administration:**
For deep intramuscular administration.
Reconstitute solution by dissolving 2.36 g of Dufanazen in 15 ml sterile water to obtain a ready-to-use 7% diminazene diaceturate solution.
Treatment of piroplasmosis and trypanosomosis caused by *T. Congolense* and *T. vivax*:
1 ml per 20 kg body weight (2.36 g of Dufanazen is sufficient for 300 kg)
Treatment of trypanosomosis caused by *T. brucei* and theileriosis caused by *Theileria annulate*:
1 ml per 10 kg body weight (2.36 g of Dufanazen is sufficient for 150 kg)
Do not exceed a total dose of 4 g of active ingredient in any animal.
If the animal does not recover after treatment consult a veterinarian.
Divide large volumes injections over 2 separate sites.
Inject dogs strictly according to body mass. Overdosage or repeated dosing may cause central nervous symptoms in dogs.

**Withdrawal times:**
Meat and offal: 21 days
Milk: 3 days
**Storage conditions:**
Store dark, dry and below 25°C. Do not freeze.
The reconstituted solution can be stored during 15 days in a fridge, if protected from light and in a closed glass vial.

**Packing:**
2.36 g sachet, 150 sachets per carton;
23.6 g sachet, 24 sachets per carton.
COLISTINE 4800 W.S.P.

Composition:
Contains per g water soluble powder:
Colistin sulphate .................................. 4,800,000 iu

Description:
Colistin is a polymyxin antibiotic with bactericidal activity against certain gram-negative bacteria, including *Salmonella* spp. and *E. coli*. Absorption of colistin sulphate after oral administration is minimal and it is therefore only active in the gastrointestinal tract. In addition to the direct antibacterial activity, colistin also exhibits potent anti-endotoxin activity.

Indications:
Gastrointestinal infections in calves, sheep, goats, swine and poultry, caused by microorganisms susceptible to colistin, e.g., *E. coli* and *Salmonella* spp.

Contraindications:
Hypersensitivity to polymyxins.

Dosage and administration:
For oral administration in drinking water or artificial milk.
Calves, sheep and goats....... 1 g per 80 kg body weight twice daily for 5 – 7 days
Swine.......................... 250 g per 1000 litres of water continuously for 5 – 7 days
Poultry ...................... 100 - 200 g per 1000 litres of water continuously for 5 – 7 days
Medicated water or milk should be used immediately and refreshed every 24 hours for the duration of the treatment.

Side effects: Gastrointestinal disturbances.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption.

Withdrawal times:
Meat and offal: 1 day.

Storage conditions:
Store dry and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
DOXYCYCLINE 20% W.S.P.

Composition:
Contains per g water soluble powder:
Doxycycline hyclate ........................................ 200 mg

Description:
Doxycycline is a tetracycline antibiotic with bacteriostatic activity against gram-positive and gram-negative bacteria, including *Mycoplasma* spp, *Rickettsia* spp. and *Chlamydia* spp.

Indications:
Bacterial infections in calves, swine and broilers, caused by microorganisms susceptible to doxycycline, specifically respiratory tract infections such as Chronic Respiratory Disease (CRD), shipping fever, rhinotracheitis and secondary bacterial infections during the course of viral disease, as well as Porcine Intestinal Adenomatosis (PIA-complex).

Contraindications:
Hypersensitivity to tetracyclines.

Dosage and administration:
For oral administration in drinking water or artificial milk.
The recommended dose is 10 mg doxycycline per kg body weight for swine and calves and 15 mg doxycycline per kg body weight for broilers.
Swine.......................................................... 500 g per 1000 litres of water, continuously for 3 – 5 days
Calves........................... 500 g per 1000 litres of milk for 200 calves of 50 kg body weight for 3 – 5 days
Broilers ................................................. 500 g per 1000 litres of water continuously for 3 days
Medicated water or milk should be used immediately and refreshed every 24 hours for the duration of the treatment.

Side effects:
Gastrointestinal disturbances.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.

Withdrawal times:
Meat and offal: 13 days (calves and porkers)
7 days (broilers)
Do not use in animals producing milk for human consumption.
Do not administer in layers producing eggs for human consumption.
Storage conditions:
Store dry and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
**DUFADOX-G 100/100 W.S.P.**

**Composition:**
Contains per g water-soluble powder:
Doxycycline hyclate................................. 100 mg
Gentamycin sulphate................................. 100 mg

**Description:**
Gentamycin is a bactericidal aminoglycoside active against most gram-negative aerobic rods and some gram-positive bacteria: *Enterobacter spp.*, *E.coli*, *Salmonella spp.*, *Brucella spp.*, *Haemophilus spp.*, *Pasteurella spp.*, most strains of *Treponema spp.* strains etc.
Doxycycline is a semi-synthetic broad-spectrum antibiotic from tetracycline class, active against both aerobic and anaerobic Gram-positive and Gram-negative bacteria: *Staphylococcus spp.*, *Haemophilus spp.*, *E.coli*, *Pasteurella spp.*, *Bacillus anthracis*, some *Clostridium spp.*, *Actinomyces spp.*, *Brucella spp.*, *Salmonella spp.*, also against *Mycoplasma spp.*, *Ricketsia spp.* and *Chlamydia spp.*
When combined, gentamicin and doxycycline can act synergistically.

**Indications:**
Treatment of infections caused by microorganisms susceptible to gentamycin and/or doxycycline in calves, sheep, goats, pigs, poultry and horses. The product is especially indicated in gastrointestinal and respiratory tract infections.
Large animals: pasteurelosis, actynobacilosis, neonatal collibacilosis, brucellosis, pneumonia, enteritis, anaplasmosis, mycoplasmosis, proliferative adenomatosus, septicemia etc.
Poultry: colibacilosis, psittacosis, chronic respiratory diseases (synovitis, coryza), pasteurellosis (fowl cholera) etc.

**Contraindications:**
Hypersensitivity to aminoglycosides and/or tetracyclines.
Animals with impaired renal or hepatic function, animals with vestibular or ear dysfunctions or animals with an active microbial digestion.

**Dosage and administration:**
For oral administration in drinking water or via feed.
Calves, sheep, goats and horses: 5 g per 100 kg body weight, once or twice daily, as required, for 3-5 days.
Swine: 5 g per 100 kg body weight, once or twice daily, as required, for 3-5 days (circa 450 g per 1000 litres of drinking water).
Poultry: 750 g per 1000 litres of drinking water, daily, for 3-5 days.

Medicated feed should be used immediately. Medicated water should be refreshed every 24 hours for the duration of the treatment. For a correct dosage the body weight should be determined with accuracy.
Side effects:
Hypersensibility reactions, rarely gastrointestinal disturbances. Tetracylines (doxycycline) may cause discoloration of bones and teeth to a yellow, brown or grey colour. In extreme overdosages nephrotoxicity, ototoxicity or neurotoxicity symptoms could occur.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced. Severely sick animals have altered drinking and feeding patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption. Do not administer concomitantly with other potential nephrotoxic or muscle relaxing medicines (penicillins, cephalosporines, quinolones).

Withdrawal times:
Meat and offal: 14 days (large animals);
7 days (poultry)
Do not use in lactating animals producing milk and laying hens producing eggs for human consumption.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
**DUFAMOX 50% W.S.P.**

**Composition:**
Contains per g water soluble powder:
Amoxicillin (as trihydrate) ......................... 500 mg

**Description:**
Amoxicillin is a semisynthetic beta-lactam antibiotic effective against a broad range of gram-negative and gram-positive bacteria. Amoxicillin is susceptible to degradation by β-lactamase-producing bacteria.

**Indications:**
Bacterial infections in calves, swine and poultry, caused by microorganisms susceptible to amoxicillin such as respiratory infections (I.B.R., R.S.V., pleuropneumonia), gastrointestinal infections (enteritis, colibacillosis, post-weaning diarrhoea), secondary bacterial infections during the course of viral disease, coryza and pasteurellosis in poultry and Glässer’s disease in Swine.

**Contraindications:**
Hypersensitivity to penicillins, severe renal impairment, active microbial digestion.

**Dosage and administration:**
For oral administration in drinking water, artificial milk or feed.
The recommended dose is 20 – 40 mg amoxicillin per kg body weight twice daily for swine and calves, and 20 mg amoxicillin per kg body weight per day for 3 to 5 days for poultry.
Swine and calves .......... 37.5 – 75 g per 100 litres of water
Swine and calves .............. 100 – 150 g per 100 kg of feed
Poultry .................................20 g per 100 litres of water
Poultry ................................. 40 g per 100 kg of feed
If required, double the recommended dose.
Medicated water, milk or feed should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Side effects:**
Gastrointestinal disturbances.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.

**Withdrawal times:**
Meat and offal: 5 days (calves and swine); 1 day (poultry)
Do not administer in layers producing eggs for human consumption.
Storage conditions:
Store dry and below 25°C. Do not freeze.

Packing:
500 g and 1 kg jars.
DUFAMOX-C 200/2 mln W.S.P.

Composition:
Contains per g water soluble powder:
Amoxicillin trihydrate..............................200 mg
Colistin sulphate.................................2,000,000 IU

Description:
Amoxicillin is a semisynthetic beta-lactam antibiotic effective against a broad range of gram-negative and gram-positive bacteria. Amoxicillin is susceptible to degradation by β-lactamase-producing bacteria.
Colistin is a polymyxin antibiotic with bactericidal activity against certain gram-negative bacteria, including Salmonella spp. and E. coli. Absorption of colistin sulphate after oral administration is minimal and it is therefore only active in the gastrointestinal tract. In addition to the direct antibacterial activity, colistin also exhibits potent anti-endotoxin activity.
Combined, amoxicillin and colistin act synergistically.

Indications:
Gastrointestinal, respiratory and urinary tract infections caused by microorganisms susceptible to amoxicillin and colistin (e.g. Camplybacter spp., Clostridium spp., Corynebacterium spp., E. coli, Erysipelothrix spp., Haemophilus spp., Pasteurella spp., Salmonella spp., penicillinase negative Staphylococcus spp. And Streptococcus spp.), in calves, goats, poultry, sheep and swine.

Contraindications:
Hypersensitivity to penicillins or colistin, severe renal impairment. Concurrent administration with tetracycline’s, chloramphenicol, macrolides and lincosamides. The product should not be administered in animals with functional rumen.

Dosage and administration:
For oral administration in drinking water
Recommended dose........ 500 g per 1000 litres drinking water for 3-5 days
Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.
A pre-solution is recommended to be made before administering to drinking water: ca. 500 g of product in 20 litres of water, warmed at 40°C.

Side effects:
Gastrointestinal disturbances.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced. Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption. Do not handle the product if you are known to be hypersensitive to penicillins. If hypersensitivity reactions occur, seek immediate medical advice.
Withdrawal times:
Meat and offal: 8 days
Eggs: 15 days

Storage conditions:
Store dry and below 25°C. Do not freeze.

Packing:
500 g and 1 kg jars.
**DUFAMPICILLIN 50% W.S.P.**

**Composition:**
Contains per g water soluble powder:
Ampicillin trihydrate.................................. 500 mg

**Description:**
Ampicillin is a semisynthetic derivative penicillin with extended (broad) spectrum of activity against gram-negative and gram-positive bacteria, having a bactericidal effect. Ampicillin is acid stable and well absorbed from the gastrointestinal tract, hence it can be administered in drinking water to be used in control of systemic infections.

**Indications:**
It is recommended in poultry, for prevention and/or treatment of infections occurring in gastrointestinal, respiratory or urinary tracts produced by microorganisms susceptible to ampicillin, e.g. *Staphylococcus* spp., *Streptococcus* spp., *Klebsiella* spp., *Clostridium* spp., *Shigella* spp., *Proteus* spp., *Pasteurella* spp. and *E. coli.*

**Contraindications:**
Do not administer to animals with known hypersensitivity to the group of penicillins and neither in animals with impared renal or hepatic function.

**Dosage and administration:**
For oral administration in drinking water.
The recommended dosage level is
200 g per 1000 litres of drinking water, continuously for a period of 5-7 days.
Medicated water should be used in maxim 4 hours after preparation.

**Side effects:**
Rarely, gastrointestinal disturbances.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Dosage may need to be adjusted to reflect herd or flock water consumption.
Do not administered concomitantly with bacteriostatic antimicrobials.

**Withdrawal times:**
Meat and offal: 8 days
Eggs: 15 days

**Storage conditions:** Store ark, dry and below 25°C. Do not freeze.

**Packing:** 250 g sachets and 1 kg jars.
DUFAPHOS-T W.S.P.

Composition:
Contains per g water soluble powder:
Calcium Fosfomycin ........................................... 200 mg
Fructose 1.6 Diphosphate ................................. 180 mg
Tylosin tartrate ................................................. 50 mg

Description:
- Fosfomycin is a natural, low toxicity, bactericidal broad-spectrum antibiotic which in the growth phase of proliferating bacteria without interfering with the reactions requiring PEP in animal cells. Bactericidal effect is evident against a wide range of gram-positive and gram-negative bacteria such as: Salmonella spp., E.coli, Pasteurella spp., Staphylococcus spp., Streptococcus spp., Haemophilus spp., Klebsiella spp. and Pseudomonas spp. It manifest a moderate activity against Listeria spp., Leptospira spp., Clostridium spp. and Vibrio spp.
- Fructose 1.6-diphosphate is a fructose sugar very common in cells as a result of conversion of the main glucose and fructose acquired.
- Tylosin is a macrolide antibiotic with bacteriostatic action, by interfering with protein synthesis and inhibiting the transpeptidation and translocation process in bacteria cell. Tylosin is active against more aerobic and anaerobic gram-positive bacteria, atypical mycobacteria (Mycobacterium spp., Mycoplasma spp., Chlamydia spp. and Rickettsia spp) and acts also against some strains of gram-negative bacteria such as Pasteurella spp., Haemophilus spp. and Neisseria spp.

Indications:
Treatment of major bacterial infections in poultry and pigs, caused by microorganisms susceptible to fosfomycin and tylosin tartrate:
Pigs: infections of the respiratory and digestive tract associated with stress and/or to different viral diseases, joints problems, diarrhoea, dysentery, salmonellosis, colibacillosis, mycoplasmosis, rhinitis, leptospirosis etc.
Poultry: infections of the respiratory and digestive tract, especially produced by E.coli and Salmonella spp., but also mycoplasmosis, C.R.D. complex, fowl cholera, infectious coryza, avian typhoid, staphylococcal infections

Contraindications:
Hypersensitivity to fosfomycin and/or tylosin (or to the group of macrolides).
Animals with severe impaired renal or hepatic function.

Dosage and administration:
For oral administration in drinking water.
The recommended dosage level is of 160 mg per kg of body weight, approximately equivalent to:
Poultry: 500-800 g per 1000 litres of drinking water, for 3-5 consecutive days;
Pigs: 1,400 g per 1000 litres of drinking water, for 3-5 consecutive days.
Dosages indicated for drinking water are orientative. For a correct dosage the required quantity should be calculated based on the body weight of animals and this should be determined with accuracy.

The necessary amount to be administered might be pre-dissolved first in a sufficient volume of water (2 to 3 times higher) and then to add the premixture to the medication system. Medicated water should be refreshed every 24 hours for the duration of the treatment.

**Side effects:**
Very rarely, hypersensibility reactions; rarely, gastrointestinal disturbances.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Dosage may need to be adjusted to reflect herd or flock water consumption.
Do not administer concomitantly with other macrolides (e.g. erythromycin) or with lincosamides (e.g. lincomycin).

**Withdrawal times:**
Meat and offal: 7 days
Do not use in laying hens producing eggs for human consumption.

**Storage conditions:**
Store dry and below 25°C. Do not freeze.

**Packing:**
100 g sachets and 1 kg jars.
**FENOSVIT-C W.S.P.**

**Composition:**
Contains per g water soluble powder:
- Colistin sulphate .................... 200,000 IU
- Erythromycin thiocyanate ............. 35 mg
- Neomycin sulphate ...................... 10 mg
- Oxytetracycline HCl .................... 50 mg
- Streptomycin sulphate ................. 35 mg
- Vitamin A acetate ...................... 500 IU
- Cholecalciferol (D3) ................... 200 IU
- Tocopherol acetate (E) ............... 2 mg
- Menadione sodium bisulfite (K3) .... 2 mg
- Thiamine HCl (B1) ...................... 2 mg
- Riboflavin (B2) ......................... 4 mg
- Pyridoxine HCl (B6) .................... 2 mg
- Cyanocobalamin (B12) ............... 10 mcg
- Nicotinamide (PP-factor) ............. 20 mg
- Ascorbic acid (C) ....................... 20 mg
- Inositol ................................ 1 mg
- Calcium D-Pantothenate .............. 10 mg

**Indications:**
Treatment and prevention of bacterial infections caused by gram-positive and gram-negative microorganisms and vitamin deficiencies due to infections and other stressors in poultry, swine and calves.

**Contraindications:**
Hypersensitivity to polymixins, macrolides, aminoglycosides or tetracyclines, severe hepatic or renal impairment.

**Dosage and administration:**
For oral administration in drinking water.
Therapeutic dose .......... 1 g per litre of water continuously for 5-7 days
Prophylactic dose ...... 0.5 g per litre of water continuously for 5-7 days
Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Side effects:**
Gastrointestinal disturbances.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption.

**Withdrawal times:**
Meat and offal: 10 days.
Eggs: 15 days.
Do not use in animals producing milk for human consumption.
**Storage conditions:**
Store dry and below 25°C. Do not freeze.

**Packing:**
100 g sachets and 1 kg jars.
NEOMYCIN 20% W.S.P.

Composition:
Contains per g water soluble powder:
Neomycin sulphate................................. 200 mg

Description:
Neomycin is an aminoglycoside antibiotic and calcium channel protein inhibitor. Neomycin binds to prokaryotic ribosomes inhibiting translation. Absorption of neomycin sulfate after oral administration is limited to approximately 3% and it is therefore mainly active against the Gram-negative bacteria located into the gastrointestinal tract. Bacteria with an MIC ≤ 8 g/ml are regarded as susceptible.

Indications:
For oral treatment of gastro-intestinal infections in cattle, sheep, goats, swine, poultry, horses, dogs and cats, caused by microorganisms susceptible to neomycin, specifically E.coli, Campylobacter spp., Salmonella spp.

Contraindications:
Hypersensitivity to aminoglycosides. Severe renal impairment. Utilization in pregnant animals is permitted only after a risk/benefit assessment performed by the responsible veterinarian.

Dosage and administration:
For oral administration:
- Cattle: 10 - 20 mg neomycin sulfate per kg body weight, equivalent to 5 - 10 g of Neomycin 20% w.s.p. per 100 kg body weight, daily, up to 14 days.
- Sheep and goats: 10 mg neomycin sulfate per kg body weight, equivalent to 2.5 g of Neomycin 20% w.s.p. per 50 kg bodyweight, daily, up to 14 days.
- Swine: 10 - 15 mg neomycin sulfate per kg body weight, equivalent to 5 - 7.5 g of Neomycin 20% w.s.p. per 100 kg body weight, daily, up to 14 days.
- Poultry (chickens, turkeys, ducks): 10 - 30 mg neomycin sulfate per kg body weight, equivalent to 50 - 150 g of Neomycin 20% w.s.p. per 150-200 litres of drinking water, daily, up to 7 days.
Medicated water should be provided as sole source until consumed, followed by non-medicated water as required. Fresh medicated water should be prepared every day. Treatment should continue 24 to 48 hours beyond remission of disease symptoms, but not to exceed the maximum duration as indicated above. Animals not drinking or eating should be treated individually by drench.
- Horses: 10 - 20 mg neomycin sulfate per kg body weight, equivalent to 5 - 10 g of Neomycin 20% w.s.p. per 100 kg body weight, daily, up to 14 days, administered in drinking water.
- Dogs: 10 - 20 mg neomycin sulfate per kg body weight, equivalent to 0.5 - 1 g of Neomycin 20% w.s.p. per 10 kg body weight, twice daily, as required, administered in drinking water.

For a proper dosage the body weight should be determined with accuracy.
Side effects:
Rarely, oral neomycin may cause ototoxicity, nephrotoxicity, severe diarrhea and intestinal malabsorption.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Dosage may need to be adjusted to reflect herd or flock water consumption.

Withdrawal times:
Meat and offal: 1 day
Milk: 1 day
Eggs: 1 day

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
OXYTETRACYCLINE 40% W.S.P.

Composition:
Contains per g water soluble powder:
Oxytetracycline HCl ..................................... 400 mg

Description:
Oxytetracycline is a highly active, broad spectrum tetracycline antibiotic with bacteriostatic activity against a wide variety of gram-positive and gram-negative organisms.

Indications:
Bacterial infections caused by microorganisms susceptible to Oxytetracycline and secondary associated bacterial infections during the course of viral or infectious diseases.

Poultry
Respiratory infections, i.e. C.R.D. (Mycoplasma gallisepticum, Mycoplasma sinoviae), gastrointestinal infections (Escherichia coli), fowl cholera (Pasteurella multocida), etc.

Swine
Respiratory infections (Pasteurella multocida, Mycoplasma hyopneumoniae, Bordetella bronchiseptica), gastrointestinal infections (Escherichia coli, Salmonella choleraesuis) etc.

Contraindications:
Hypersensitivity to tetracyclines, severe hepatic or renal impairment. Do not use in other species than those recommended.

Dosage and administration:
For oral administration in drinking water or feed.
Recommended therapeutic dosage:
Swine .......................................................... 50 mg per kg body weight, for 3 – 5 days
Poultry (water)................................. 100 g per 200 litres of water continuously for 3 – 5 days
Poultry (feed) ................................. 1,050 g per tonne of feed continuously for 3 – 5 days
Recommended prophylactic dosage:
Poultry (water) .................. 20 - 50 g per 200 litres of water continuously for 3 – 5 days
Poultry (feed) ................. 262.5 - 525 g per tonne of feed continuously for 3 – 5 days
Medicated water or feed should be used immediately and refreshed every 24 hours for the duration of the treatment.
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
For a correct dosage and to avoid sub-therapeutic doses, the body weight should be determined with accuracy.

Side effects:
Gastrointestinal disturbances.
**Precautions and warnings:**
Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption.

**Withdrawal times:**
Meat and offal: 8 days (swine)  
6 days (poultry)
Eggs: 5 days

**Storage conditions:**
Store dry and below 25°C. Do not freeze.

**Packing:**
100 g sachets and 1 kg jars.
TRIM/SUL 100/500 W.S.P.

Composition:
Contains per g water-soluble powder:
Trimethoprim............................................ 100 mg
Sulphadiazine sodium.............................. 500 mg

Description:
Trimethoprim and sulphadiazine act synergistically. The combination is bactericidal against a wide range of gram-positive and gram-negative bacteria in poultry, swine and calves. After administration absorption from the gastrointestinal is rapid.

Indications:
Poultry: Colibacillosis caused by *Escherichia coli*, enteritis caused by *Salmonella* spp., coryza caused by *Haemophilus paragallinarum*.
Swine: Acute or chronic enteritis caused by *Salmonella* spp., post-weaning diarrhoea caused by K88+, K99+ or 987P *E. coli* strains, secondary infections caused by *Pasteurella multocida*, *Actinobacillus pleuropneumoniae*, *Streptococcus* spp. or *Haemophilus parasuis* during the course of influenza or Aujeszki.
Calves: Enteritis caused by *S. dublin* and *S. typhimurium*, colibacillosis caused by K99+ *E. coli* strains, secondary bacterial infections caused by *P. multocida*, *P. haemolytica*, *S. pyogenes* or *S. pneumoniae* (IBR).

Contraindications:
Do not use in cases of hypersensitivity to the active substances. Do not use in animals with impaired renal or hepatic function. Do not use where there are diseases with decreased urine production (oliguria, anuria) and aciduria. Do not administer to calves with functional rumens.

Dosage and administration:
For oral administration in drinking water or milk (-replacer).
Calves.................................................. 2 g per 50 kg body weight for 4 – 7 days
Swine..............500 g per 1,000 litres of drinking water continuously for 4 – 7 days
Poultry ..........500 g per 1,000 litres of drinking water continuously for 3 days
Medicated water or milk should be used immediately and refreshed every 24 hours for the duration of the treatment.

Side effects:
Hypersensitivity reactions (rarely).

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption.
Withdrawal times:
Meat and offal: 3 days (poultry)
   8 days (swine, calves)
Do not use in layers producing eggs for human consumption.

Storage conditions:
Store dry and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
TYLO-DOX PLUS W.S.P.

Composition:
Contains per g water soluble powder:
Tylosin tartrate ......................................... 100 mg
Doxycycline hyclate ..................................... 200 mg

Description:
Tylosin is a macrolide antibiotic with bacteriostatic activity mainly against gram-positive as well as some gram-negative bacteria.
Doxycycline is a tetracycline antibiotic with bacteriostatic activity against gram-positive and gram-negative bacteria, including *Mycoplasma* spp, *Rickettsia* spp. and *Chlamydia* spp.
When combined, tylosin and doxycycline act synergistically.

Indications:
For the treatment of bacterial infections in calves, swine and poultry, caused by microorganisms susceptible to tylosin and doxycycline, particularly gastrointestinal and respiratory infections.

Contraindications:
Hypersensitivity to macrolides or tetracyclines, severe hepatic or renal impairment, active microbial digestion.

Dosage and administration:
For oral administration in drinking water or feed.
Calves...... 500 g per 400 calves of 50 kg body weight per day for 3 – 5 days
Swine.............. 100 g per 200 – 400 litres of water per day for 3 – 5 days
Poultry ............ 100 g per 200 – 400 litres of water per day for 3 – 5 days
Medicated water or feed should be used immediately and refreshed every 24 hours for the duration of the treatment.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.

Withdrawal times:
Meat and offal: 15 days
Eggs: 4 days

Storage conditions:
Store dark, dry and below 25°C. Do not freeze.

Packing:
100 g sachets and 1 kg jars.
**TYLOSIN 50% W.S.P.**

**Composition:**
Contains per g water soluble powder:
Tylosin (as tartrate) .................................. 500 mg

**Description:**
Tylosin is a macrolide antibiotic with bacteriostatic activity mainly against gram-positive as well as some gram-negative bacteria. As the other macrolides, Tylosin is well absorbed from the gastrointestinal tract and the plasma concentrations peak is reached within approx. 1-2 hours in most cases.

**Indications:**
Treatment and profilaxis of bacterial infections in calves, swine and poultry, caused by microorganisms susceptible to tylosin, particularly in:
- Broilers: CRD complex (Mycoplasma gallisepticum, Mycoplasma synoviae, chronic enteritis (Clostridium perfringens);
- Turkeys: infectious sinusitis (Mycoplasma gallisepticum);
- Cattle: pneumonia (Mycoplasma spp.);
- Swine: enzootic pneumonia (Mycoplasma spp.), adenomatosis and ileitis (Lawsonia intracellularis).

**Contraindications:**
Hypersensitivity to tylosin or the group of macrolides. Animals with impaired hepatic function or with active microbial digestion.

**Dosage and administration:**
For oral administration in drinking water and/or milk replacer. The recommended dosage levels are as followings:
- Poultry and turkeys:
  35 mg tylosin (as tartrate) per kg b.w. (7 g Tylosin 50% wsp per 100 kg b.w.), equivalent to 100 g Tylosin 50% wsp per 400 litres of drinking water
- Swine:
  25 mg tylosin (as tartrate) per kg b.w. (2.5 g Tylosin 50% wsp per 50 kg b.w.), equivalent to 5-6 g Tylosin 50% wsp per 10 litres of drinking water, for a period of 3-5 days.
- Calves (pre-ruminant only):
  40 mg tylosin (as tartrate) per kg b.w. (8 g Tylosin 50% wsp per 100 kg b.w.), in milk replacer, for a period of 3 – 5 days.

Medicated water or milk should be used immediately and refreshed every 24 hours for the duration of the treatment. For a correct dosage and to avoid sub-therapeutic doses, the body weight should be determined with accuracy.
Side effects:
Rarely, gastrointestinal disturbances.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.
Do not mix with other products.

Withdrawal times:
Meat and offal:
Calves: 12 days
Swine: 2 days
Poultry and turkeys: 2 days
Eggs: 0 days

Storage conditions:
Store dark, dry and below 25°C.
Do not freeze.

Packing:
100 g sachets and 1 kg jars.
DUFAFLOR 10% ORAL

Composition:
Contains per ml oral solution:
Florfenicol ................................................ 100 mg

Description:
Florfenicol is a synthetic broad spectrum antibiotic effective against most gram-positive and gram-negative bacteria isolated from domestic animals. Florfenicol acts by inhibiting protein synthesis at the ribosomal level and is bacteriostatic. However, bactericidal activity has been demonstrated in-vitro against *Actinobacillus pleuropneumoniae* and *Pasteurella multocida*.

Indications:
Treatment and prevention of gastrointestinal and respiratory infections in poultry and swine caused by microorganisms susceptible to florfenicol such as *Pasteurella multocida* and *Actinobacillus pleuropneumoniae*.

Contraindications:
Hypersensitivity to florfenicol. Animals intended for breeding.

Dosage and administration:
For oral administration in drinking water.
Swine ............. 2 litres per 1,000 litres of water continuously for 5 days (20 mg florfenicol per kg body weight)
Poultry .......... 1 litre per 1,000 litres of water continuously for 3 days (30 mg florfenicol per kg body weight)
Shake well before use.
Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

Side effects:
Decrease in water and feed consumption, softening of faeces or diarrhoea. In swine transient perianal and rectal erythema/oedema and rectum prolapse may occur.

Precautions and warnings:
Not recommended for use in pregnant or lactating animals. It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.
Do not use or store in galvanized metal watering systems or containers. People with known hypersensitivity to florfenicol or polyethylene glycols should avoid contact with this product. In case of accidental spillage onto skin, rinse with water.
Withdrawal times:
Meat and offal: 21 days (swine); 7 days (poultry).
Do not use in layers producing eggs for human consumption.

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
1 litre bottles.
DUFAFLOXACIN 10% ORAL

Composition:
Contains per ml oral solution:
Enrofloxacin.................................................. 100 mg

Description:
Enrofloxacin is a fluoroquinolone antibiotic with bactericidal activity against both gram-positive and gram-negative bacteria as well as *Mycoplasma* spp, *Chlamydia* spp. and *Rickettsia* spp.

Indications:
Gastrointestinal and respiratory infections in swine and poultry, caused by microorganisms susceptible to enrofloxacin, such as *Campylobacter* spp., *E. coli*, *Haemophilus* spp., *Mycoplasma* spp., *Pasteurella* spp. and *Salmonella* spp.

Contraindications:
Hypersensitivity to quinolones, severe hepatic or renal impairment.

Dosage and administration:
For oral administration in drinking water.
Swine...................................................... 1 ml per 40 kg body weight
(2.5 mg enrofloxacin per kg body weight)
Poultry .................. 1 litre per 2,000 litres of water for 3-5 days
(10 mg enrofloxacin per kg body weight)
Shake well before use. Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

Side effects:
Gastrointestinal disturbances.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption.

Withdrawal times:
Meat and offal: 4 days
Do not use in layers producing eggs for human consumption.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml and 1 litre bottles.
**DUFANOR 20% ORAL**

**Composition:**
Contains per ml oral solution:
Norfloxacin............................................... 200 mg

**Description:**
Norfloxacin is a fluoroquinolone antibiotic with bactericidal activity mainly against gram-negative bacteria, as well as *Mycoplasma* spp.

**Indications:**
Gastrointestinal and respiratory infections in poultry caused by microorganisms susceptible to norfloxacin, such as Chronic Respiratory Disease (CRD), colibacillosis, Fowl Cholera, staphylococcal and streptococcal infections.

**Contraindications:**
Hypersensitivity to quinolones, severe hepatic or renal impairment.

**Dosage and administration:**
For oral administration in drinking water.
Recommended dose....... 25 ml per 100 litres of water continuously for 3 – 5 days
If required, treatment may be repeated after 5 days. Shake well before use. Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Side effects:**
Gastrointestinal disturbances, excitation.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally. Dosage may need to be adjusted to reflect herd or flock water consumption.

**Withdrawal times:**
Meat, offal and eggs: 4 days.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml and 1 litre bottles.
**DUFATIL 25% ORAL**

**Composition:**
Contains per ml oral solution:
Tilmicosin (as phosphate) ....................... 250 mg

**Description:**
Tilmicosin is a broad-spectrum, semi-synthetic antibiotic synthesized from tylosin with bactericidal activity against gram-positive and gram-negative bacteria, predominantly *Mycoplasma*, *Pasteurella* and *Haemophilus* spp.

**Indications:**
Respiratory infections in calves, poultry and swine, caused by microorganisms susceptible to tilmicosin.

**Contraindications:**
Hypersensitivity to tilmicosin. Animals intended for breeding purposes. Animals with active microbial digestion.

**Dosage and administration:**
For oral administration in drinking water or (artificial) milk.
Calves.... 1 ml per 20 kg body weight, administered twice daily in (artificial) milk for 3 – 5 days
Poultry ........................................ 300 ml per 1000 litres of water (75 ppm) continuously for 3 days
Swine......................................... 800 ml per 1000 litres of water (200 ppm) continuously for 5 days
Shake well before use. Medicated water or milk should be used immediately and refreshed every 24 hours for the duration of the treatment. Correct dosage should be based on daily water consumption.

**Side effects:**
Transient decrease in water or (artificial) milk intake can occur.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is started.
Use in pregnant or lactating animals only after risk/benefit assessment by a veterinarian.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.

**Withdrawal times:**
Meat and offal: 42 days (calves), 12 days (broilers); 19 days (turkeys), 14 days (swine).
Do not use in layers producing eggs for human consumption.

**Storage conditions:** Store dark and below 25°C. Do not freeze.

**Packing:**
240 ml and 1 litre bottles.
THIAMPHENICOL 10% ORAL

Composition:
Contains per ml oral solution:
Thiamphenicol.......................................... 100 mg

Description:
Thiamphenicol is a broad-spectrum antibiotic with bacteriostatic activity against gram-positive and gram-negative bacteria, in particular anaerobes. Among others it as active against: *Clostridium, Corynebacterium dpterae, Staphylococcus albus, Streptococcus pyogenes, Streptococcus viridans, Fusobacterium, Psteurella, Haemophilus, Stigella, some Vibrio strains and also Mycoplasma, Treponema, Ricketisan, Entamoeba and Actinomycetes.*

Indications:
Respiratory and alimentary tract infections in cattle, swine and poultry, caused by microorganisms susceptible to thiamphenicol.

Contraindications:
Hypersensitivity to thiamphenicol. Animals with any evidence of pre-existing bone-marrow depression or blood dyscrasias. This oral product is not suitable for using in cattle with functional rumen.

Dosage and administration:
General dosage 30 mg/kg b.w. For oral administration in drinking water.
- Poultry
  1.5 – 2 ml/ liter of drinking water, daily, for up to 5 days.
- Cattle
  2 – 3 ml / liter of drinking water, daily, for up to 5 days.
- Pigs
  2 – 3 ml/ liter drinking water, daily, for up to 5 days.
Shake well before use. Medicated water should be used immediately and refreshed every 24 hours for the duration of het treatment.

Side effects:
Dose-dependent reversible depression of the bone-marrow, haematological dyscrasias, gastrointestinal disturbances and cutaneous eruptions.

Interactions:
Do not combine with bactericidal antibiotics or sulfamethoxypyridazine.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.
Use in pregnant or lactating animals only after risk/benefit assessment by veterinarian. Reduce dosage in animals with impaired kidney function.

**Withdrawal times:**
Meat and offal: 18 days
Milk: 5 days
The product is not permitted to be administered in laying hens from which eggs are produced for human consumption.

**Storage conditions:**
Store below 25°C. Do not freeze.

**Packing:**
100 ml and 1 litre bottles.
**TRIM/SUL 80/400 ORAL SUSP**

**Composition:**
Contains per ml oral suspension:
- Trimethoprim: 80 mg
- Sulfadiazine: 400 mg

**Description:**
Trimethoprim is an antibacterial agent with a bacteriostatic activity against many gram-negative and gram-positive bacteria. Sulfadiazine is a sulfonamide antibiotic with bacteriostatic activity. The combination ("potentiated sulphas") is bactericidal against a wide variety of gram-positive and gram-negative bacteria as trimethoprim and sulfadiazine act synergistically.

**Indications:**
Gastrointestinal, respiratory and urogenital infections in swine and poultry, caused by microorganisms susceptible to trimethoprim and/or sulfadiazine.

**Contraindications:**
Hypersensitivity to trimethoprim or sulfonamides, severe hepatic or renal impairment.

**Dosage and administration:**
For oral administration in drinking water. The recommended dose is 5 mg trimethoprim and 25 mg sulfadiazine per kg body weight.
- Swine: 1 litre per 1600-2000 litres of water continuously for 4 – 7 days
- Poultry: 1 litre per 1600-2000 litres of water continuously for 3 – 5 days
Shake well before use. Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment.

**Side effects:**
Blood dyscrasias, prolonged administration (more than 2 weeks) may cause folic acid deficiency and/or crystalluria.

**Interactions:**
Patients should be monitored if therapy is combined with highly plasma protein bound drugs. These may be displaced by sulfonamides resulting in overdose.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.
Severely sick animals have altered drinking patterns and may need to be medicated parenterally.
Dosage may need to be adjusted to reflect herd or flock water consumption.
**Withdrawal times:**
Meat and offal:
- swine: 8 days;
- poultry: 5 days.

Do not use in layers producing eggs for human consumption.

**Storage conditions:**
Store below 25°C. Do not freeze.

**Packing:**
100 ml and 1 litre bottles.
**DUFA SPRAY**

**Composition:**
Contains per g of aerosolized suspension:
Copper chelate .......................................... 8.4 mg
Zinc chelate .............................................. 8.4 mg
Butane/Propane

**Indications for use:**
Dufa Spray boosts the recovery of damage to the skin. The micronized zinc and copper chelates are easily absorbed by the skin, so that the action is effectively and rapidly. It allows farmers to keep the skin of their animals in optimal condition.
Treatment of superficial traumatic or surgical wounds. The product can be used as part of a treatment protocol for superficial skin and claw infections.

**Dosage:**
Dufa Spray is intended for veterinary use only. Shake can well before use. Clean the target area and spray a thin layer onto the surface of the skin for 3 seconds from a distance of 25 – 30 cm until the treatment-area is evenly coloured in green. If necessary, repeat after 30 seconds. Allow the product to be absorbed for at least 30 seconds.
In case of foot and mouth disease in adult animals, spray for maximum 2 seconds on the blisters once daily. Do not spray in the mouths of sheep.
Apply the product in the open air or in a well-ventilated area.

**Precautions and warnings:**
*Animals*
Protect the eyes of the animal when spraying in the vicinity of the head. Ensure the spray does not come into contact with the eyes, as it may cause irritation. Clean the skin surface thoroughly before applying Dufa Spray. Ensure the skin surface remains dry after application.
The animal should be discouraged from licking the treated area or treated areas on other animals.
After administration to the claw, the animal should be kept on dry ground for at least one hour.
Do not spray in the mouths of sheep!

*People*
Avoid inhaling the vapours. Wear suitable, impermeable gloves and do not eat, drink or smoke while using the product.

**Storage conditions:**
Store below 25°C, in an area out of reach of children and domestic animals. Do not refrigerate and protect against frost. Protect the can from direct sunlight and do not expose to temperatures exceeding 50°C. Do not store near potential sources of ignition. Do not smoke.
Do not spray on a naked flame or any incandescent material. Do not pierce or burn the container, even after use.

**Packing:**
250ml aerosol can.
**DUFAFLOR 30% INJ**

**Composition:**
Contains per ml solution:
Florfenicol ................................................ 300 mg

**Description:**
Florfenicol is a synthetic broad spectrum antibiotic effective against most gram-positive and gram-negative bacteria isolated from domestic animals. Florfenicol acts by inhibiting protein synthesis at the ribosomal level and is bacteriostatic. However, bactericidal activity has been demonstrated in-vitro against *Actinobacillus pleuropneumoniae*, *Pasteurella multocida*, *Mannheimia haemolytica* and *Histophilus somni*.

**Indications:**
Cattle:
- treatment or metaphylactic treatment of naturally undifferentiated bovine respiratory diseases (associated with bronchitis, bronchopneumonia and pulmonary oedema, pneumonia, pleuropneumonia), enzootic bronchopneumonia (calves), caused by susceptible bacteria (*Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni*, *Actinobacillus pleuropneumoniae*)
- treatment of bovine interdigital phlegmon (foot rot, acute interdigital necrobacillosis, infectious pododermatitis), caused by *Fusobacterium necrophorum*, *Bacteroides melanogeninus*)
- treatment of bovine keratoconjunctivitis (caused by *Moraxella bovis*)

Pigs:
- treatment of respiratory diseases caused by *Actinobacillus pleuropneumoniae*, *Mycoplasma hyopneumoniae* (e.g. enzootic pneumonia, pleuropneumonia, PRDC – porcine respiratory disease complex)

**Contraindications:**

**Dosage and administration:**
For subcutaneous (cattle) or intramuscular administration (swine, cattle) in the neck.
Cattle, IM route ..................1 ml per 15 kg body weight (20 mg/kg) twice 48 hours apart
Cattle, SC route ............................. 2 ml per 15 kg body weight (40 mg/kg) once only
The dose volume in cattle should not exceed 10 ml at any one injection site.
Swine, IM route ..................1 ml per 20 kg body weight (15 mg/kg) twice 48 hours apart
The dose volume in swine should not exceed 3 ml at any one injection site.
To avoid underdosing, the body weight of the animals should be determined with accuracy.
**Side effects:**
Commonly in swine, transient diarrhoea and/or peri-anal and rectal erythema/oedema lasting up to week. In swine, swelling at the injection site for up to 5 days and inflammatory lesions at the injection site for up to 28 days. In cattle, decreased feed intake and loose stools during treatment. In cattle after intramuscular administration, swelling at the injection site for up 14 days and inflammation at the injection site for up to 32 days. In cattle after subcutaneous administration, swelling and inflammation at the injection site for up to 41 days.

**Withdrawal times:**
Meat and offal: cattle IM route 30 days; cattle SC route 44 days; swine IM route 18 days. Do not use in animals producing milk for human consumption.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml vials.
DUFAFLOXACIN 10% INJ

Composition:
Contains per ml solution:
Enrofloxacin............................................. 100 mg

Description:
Enrofloxacin is a fluoroquinolone antibiotic with bactericidal activity against both gram-positive and gram-negative bacteria as well as Mycoplasma spp, Chlamydia spp. and Rickettsia spp.

Indications:
Gastrointestinal and respiratory infections such as pasteurellosis, mycoplasmosis, colibacillosis, colisepticemia and salmonellosis in cattle and swine. Secondary bacterial infections during the course of viral disease, such as bovine respiratory disease complex.

Contraindications:
Hypersensitivity to quinolones, severe renal or hepatic impairment.

Dosage and administration:
For subcutaneous (cattle) or intramuscular (swine) administration.
Recommended dose: 1 ml per 40 kg body weight per day for 3 days
In severe cases of respiratory infections and salmonellosis: up to 2 ml per 40 kg body weight per day for 3 days (swine) or 5 days (cattle)
To avoid underdosing, the body weight of the animals should be determined with accuracy.

Side effects:
Injection site reactions.

Precautions and warnings:
It is recommended that the susceptibility of the causative microorganisms is established before treatment is commenced.

Withdrawal times:
Meat and offal (cattle and swine): 10 days
Milk (cattle): 4 days

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml vials.
**Composition:**
Contains per ml suspension:
Ceftiofur (as HCl) ....................................... 50 mg

**Description:**
Ceftiofur is a cephalosporin antibiotic with bactericidal activity against both gram-positive and gram-negative bacteria.

**Indications:**
For the treatment of bacterial infections in cattle and swine caused by micro-organisms susceptible to ceftiofur, especially:
Cattle: bacterial respiratory disease associated with *P. haemolytica, P. multocida* & *H. somnus*; acute interdigital necrobacillosis (panaritium, foot rot) associated with *F. necrophorum* and *B. melaninogenicus*; bacterial component of acute post-partum (puerperal) metritis within 10 days of calving associated with *E.coli, A. pyogenes* & *F. necrophorum*, sensitive to ceftiofur.
Swine: bacterial respiratory disease associated with *H. pleuro pneumoniae, P. multocida, S. choleraesuis* & *S. suis*.

**Contraindications:**
Known hypersensitivity to ceftiofur.

**Dosage and administration:**
For subcutaneous (cattle) or intramuscular (cattle, swine) administration.
Shake well before use to resuspend.
Cattle … 1 - 2 ml per 50 kg body weight per day (2 mg ceftiofur per kg body weight)
For respiratory disease on 3 – 5 consecutive days; for footrot on 3 consecutive days; for metritis on 5 consecutive days.
Swine … 1 ml per 10 kg body weight per day on 3 consecutive days.
Do not inject intravenously! Do not employ in subtherapeutic dose!
To avoid underdosing, the body weight of the animals should be determined with accuracy.

**Side effects:**
Mild tissue irritation or discoloration at the injection site.

**Precautions and warnings:**
It is recommended that the susceptibility of the causative micro-organisms is established before treatment is commenced. Avoid skin contact, inhalation or self-injection. If hypersensitivity reactions occur, seek medical advice.

**Withdrawal times:** Meat and offal: 3 days (cattle), 4 days (swine); milk: 0 days.

**Storage conditions:** Store dark and below 25°C. Do not freeze.
**Packing:** 100 ml vials.
**DUFAMOX 15% LA INJ**

**Composition:**
Contains per ml oily suspension:
Amoxicillin (as trihydrate) ......................... 150 mg

**Description:**
Amoxicillin is broad spectrum semi-synthetic penicillin with bactericidal activity against a wide range of gram-positive and gram-negative bacteria including the following:
Gram-negative: *Actinobacillus lignieresii*; *Bordetella bronchiseptica*, *Escherichia coli* (non β-lactamase producing strains), *Corynebacterium* spp.; *Fusobacterium* spp.; *Haemophilus* spp.; *Moraxella* spp.; *Pasteurella* spp.; *Proteus mirabilis* (non β-lactamase producing strains); *Salmonella* spp.
Gram-positive: *Bacillus anthracis*; *Clostridium* spp.; *Erysipelothrix rhusiopathiae*; streptococci; staphylococci (non β-lactamase producing strains).

**Indications:**
Bacterial infections in cattle, sheep, goats, pigs, dogs and cats caused by microorganisms susceptible to amoxicillin.

**Contraindications:**
Hypersensitivity to penicillins.

**Dosage and administration:**
For intramuscular injection in cattle, sheep, goats and pigs.
For subcutaneous injection in dogs and cats.
Recommended dose: 1 ml per 10 kg
If required, repeat after 2 days.
Shake well before use and always administer aseptically.
The dose volume should not exceed 20 ml in cattle, 10 ml in swine, 5 ml in sheep and goats at any one injection side.
To avoid underdosing, the body weight of the animals should be determined with accuracy.

**Side effects:**
Use of the product may occasionally result in local tissue reaction.

**Precautions and warnings:**
Therapy should be based on susceptibility testing or local epidemiological information. Do not handle the product if you are known to be hypersensitive to penicillins.

**Withdrawal times:**
Meat and offal: 14 days
Milk: 3 days
**Storage conditions:**
Store dark and below 25°C. Do not freeze.
After first opening it should be stored dark and refrigerated conditions (2 – 8°C)

**Packing:**
100 ml vials.
**DUFAMOX-G 150/40 INJ**

**Composition:**
Contains per ml suspension:
Amoxicillin trihydrate ......................... 150 mg
Gentamicin (as sulphate) ......................... 40 mg

**Description:**
Amoxicillin is a beta-lactam antibiotic with bactericidal activity against gram-positive and gram-negative microorganisms. Gentamicin is an aminoglycoside antibiotic with bactericidal activity against gram-negative and some gram-positive bacteria. Penicillins and aminoglycosides act synergistically.

**Indications:**
Bacterial infections in horses, cattle, sheep, goats and swine, caused by microorganisms susceptible to amoxicillin and gentamicin.

**Contraindications:**
Hypersensitivity to penicillins or aminoglycosides, renal impairment, infections caused by penicillinase-producing microorganisms.

**Dosage and administration:**
For intramuscular administration. Shake well before use.
Recommended dose: 1 ml per 10 kg body weight per day for 3 days
The dose volume should not exceed 20 ml in cattle, 10 ml in swine, 5 ml in sheep and goats at any one injection site.
To avoid underdosing, the body weight of the animals should be determined with accuracy.

**Side effects:**
Injection site reactions. Aminoglycosides can cause ototoxicity, nephrotoxicity or neurotoxicity.

**Precautions and warnings:**
Do not administer intravenously. Do not administer concurrently with other potentially nephrotoxic drugs or general anaesthetics. Use only in pregnant animals if the benefits outweigh the risks. Do not handle the product if you are known to be hypersensitive to penicillins.

**Withdrawal period:**
Meat and offal: 30 days
Milk: 2 days

**Storage conditions:**
Store dark and below 25°C. Do not freeze.
After first opening it should be stored in dark and refrigerated conditions (2 – 8°C)

**Packing:** 100 ml vials.
GENTAMYCIN 10% INJ

Composition:
Contains per ml solution:
Gentamicin (as sulphate) ......................... 100 mg

Description:
Gentamicin is an aminoglycoside antibiotic with bactericidal activity against both gram-negative and some gram-positive bacteria.

Indications:
Bacterial infections in horses, cattle, calves, swine, goats and sheep, caused by microorganisms susceptible to gentamicin

Contraindications:
Hypersensitivity to aminoglycosides. Renal impairment. The product should not be used in pregnant animals.

Dosage and administration:
For intramuscular administration.
Recommended dose: 1 ml per 20 - 25 kg body weight, preferably twice on the first day, followed by once daily for 3 to 5 days.
To avoid underdosing, the body weight of the animals should be determined with accuracy.

Side effects:
Neurotoxicity, ototoxicity and nephrotoxicity, dependent on dosage and duration of treatment.

Interactions:
Do not combine with bacteriostatic antibiotics.

Withdrawal times:
Meat and offal: 45 days
Milk: 5 days

Storage conditions:
Store below 25°C. Do not freeze.
After first opening it should be stored in dark an refrigerated conditions (2 – 8°C)

Packing:
100 ml vials.
OXYTETRACYCLINE 20% L.A. INJ

Composition:
Contains per ml solution:
Oxytetracycline (as dihydrate) .................. 200 mg

Description:
Oxytetracycline is a highly active, broad spectrum tetracycline antibiotic with bacteriostatic activity against a wide variety of gram-positive and gram-negative organisms. The product is specifically formulated to provide a prolonged action resulting in sustained antibacterial activity.

Indications:
Bacterial infections in cattle, swine and sheep, caused by microorganisms susceptible to oxytetracycline such as atrophic rhinitis, navel/joint ill, respiratory tract infections, metritis, mastitis, urinary tract infections, shipping fever, liver abscesses, salmonellosis, dysentery, erysipelas, foot rot and the control of enzootic abortion in sheep.

Contraindications:
Hypersensitivity to tetracyclines, severe renal or hepatic impairment. Not for use in horses, dogs and cats.

Dosage and administration:
For intramuscular or subcutaneous administration.
Recommended dose: 1 ml per 10 kg body weight
If required, repeat after 48 hours.
The dose volume at one injection site should not exceed 20 ml in cattle, 10 ml in pigs or 5 ml in sheep.
To avoid underdosing, the body weight of the animals should be determined with accuracy.

Side effects:
Transient local injection site reactions. The use of oxytetracycline during the period of tooth and bone development, including late pregnancy may lead to tooth discoloration.

Withdrawal times:
Meat and offal: 21 days
Milk: 10 days

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
100 ml vials.
PEN/STREP 20/20 INJ

Composition:
Contains per ml suspension:
Benzylpenicillin procain ....................... 200,000 IU
Dihydrostreptomycin sulphate .................. 200 mg

Description:
Penicillin is a bactericidal against penicillin-susceptible microorganisms. Streptomycin is an aminoglycoside antibiotic with bactericidal activity against both gram-negative and some gram-positive bacteria. Penicillins and aminoglycosides act synergistically.

Indications:
Bacterial infections in horses, cattle, calves, swine, sheep, goats, dogs and cats, caused by microorganisms susceptible to penicillin and/or streptomycin.

Contraindications:
Hypersensitivity to any of the active ingredients, severe renal impairment, infections caused by penicillinase-producing microorganisms.

Dosage and administration:
For intramuscular or subcutaneous (dog and cat) administration.
Shake well before use to resuspend.
Horse, cattle........................... 1 ml per 20 kg body weight per day for up to 5 days
Calves, swine, sheep,
goats, dogs and cats .......... 1 ml per 10 kg body weight per day for up to 5 days
The dose volume should not exceed 20 ml in cattle, 10 ml in swine, 5 ml in sheep and goats at any one injection site.
To avoid underdosing, the body weight of the animals should be determined with accuracy.

Side effects:
Transient injection site reactions. Procaine penicillin may cause abortion in sows. Aminoglycosides can cause ototoxicity, nephrotoxicity or neurotoxicity.

Precautions and warnings:
Do not administer intravenously. Do not administer concurrently with other potentially nephrotoxic drugs or general anaesthetics. Use only in pregnant animals if the benefits outweigh the risks. Do not handle the product if you are known to be hypersensitive to penicillins.

Withdrawal times:
Meat and offal: 30 days
Milk: 4 days
**Storage conditions:**
Store dark and below 25°C. Do not freeze.
After first opening it should be stored in dark and refrigerated conditions (2 – 8°C)

**Packing:**
100 ml vials.
Composition:
Contains per ml solution:
Trimethoprim .............................................. 40 mg
Sulfadoxine .............................................. 200 mg

Description:
Trimethoprim is an antibacterial agent with a bacteriostatic activity against many gram-negative and gram-positive bacteria. Sulfadoxine is a sulfonamide antibiotic with bacteriostatic activity. The combination (‘potentiated sulphas’) is bactericidal against a wide variety of gram-positive and gram-negative bacteria as trimethoprim and sulfadoxine act synergistically.

Indications:
Gastrointestinal, respiratory and urogenital infections in cattle, swine, sheep, goats and horses caused by microorganisms susceptible to the combined effects of trimethoprim and sulfadoxine, such as acute or chronic enteritis caused by Salmonella choleraesuis and some other Salmonella spp.; post-weaning diarrhoea caused by K88-positive, K99-positive or 987P Escherichia coli-strains; secondary bacterial infections with Pasteurella multocida, Actinobacillus pleuropneumoniae, Streptococcus spp and Haemophilus parasuis, during the course of viral disease.

Contraindications:
Hypersensitivity to trimethoprim or sulphonamides, blood dyscrasias or severe hepatic or renal impairment.

Dosage and administration:
For intramuscular (cattle, swine, sheep, goats) or slow intravenous (cattle, horse) administration. Recommended dose: 0.6 – 1.25 ml per 10 kg body weight per day for up to 5 days.
To avoid under dosing the body weight should be determined with accuracy.

Side effects:
Transient injection site reactions. Anaemia, leucopenia and thrombocytopenia can be observed.

Interactions:
Do not administer concurrently with members of the Vitamin B complex, or local anaesthetics such as procaine and lidocaine or calcium based solutions.

Withdrawal times:
Meat and offal: 14 days
Milk: 4 days
**Storage conditions:**
Store dark and below 25°C. Do not freeze.
After first opening it should be stored in dark and refrigerated conditions (2 – 8°C)

**Packing:**
100 ml vials.
**TRIM/SUL M 40/200 INJ**

**Composition:**
Contains per ml solution:
- Trimethoprim ............................................ 40 mg
- Sulfamethoxazole .................................. 200 mg

**Description:**
Trimethoprim is an antibacterial agent with a bacteriostatic activity against many gram-negative and gram-positive bacteria. Sulfamethoxazole is a sulfonamide antibiotic with bacteriostatic activity. The combination (‘potentiated sulphas’) is bactericidal against a wide variety of gram-positive and gram-negative bacteria as trimethoprim and sulfamethoxazole work synergistically.

**Indications:**
Infections in cattle, swine, sheep, goats and horses caused by microorganisms susceptible to the combined effects of trimethoprim and sulfamethoxazole, such as acute or chronic enteritis caused by *Salmonella choleraesuis* and some other *Salmonella* spp.; post-weaning diarrhoea caused by K88-positive, K99-positive or 987P *Escherichia coli*-strains; secondary bacterial infections with *Pasteurella multocida*, *Actinobacillus pleuropneumoniae*, *Streptococcus* spp and *Haemophilus parasuis*, during the course of viral disease.

**Contraindications:**
Hypersensitivity to trimethoprim or sulphonamides, blood dyscrasias or severe hepatic or renal impairment.

**Dosage and administration:**
For intramuscular (cattle, swine, sheep, goats) or slow intravenous (cattle, horse) administration. Recommended dose: 0.6 – 1.25 ml per 10 kg body weight per day for up to 5 days. To avoid under dosing the body weight should be determined with accuracy.

**Side effects:**
Transient injection site reactions. Anaemia, leucopenia and thrombocytopenia can be observed.

**Interactions:**
Do not administer concurrently with members of the Vitamin B complex, or local anaesthetics such as procaine and lidocaine or calcium based solutions.

**Withdrawal times:** Meat and offal: 14 days, Milk: 4 days

**Storage conditions:**
Store dark and below 25°C. Do not freeze. After first opening it should be stored in dark and refrigerated conditions (2 – 8°C).

**Packing:** 100 ml vials.
TYLOSIN 20% INJ

Composition:
Contains per ml solution:
Tylosin (as tartrate) .................................. 200 mg

Description:
Tylosin is a macrolide antibiotic, mainly active against gram-positive bacteria and mycoplasmas. It is also active against some gram-negative bacteria, spirochetes, some rickettsia and chlamydia. At recommended doses, tylosin acts bacteriostatically.

Indications:
Bacterial infections in cattle, sheep, goats and swine, caused by microorganisms susceptible to tylosin, including swine dysentery, erysipelas, pneumonia, foul in the foot, and mastitis.

Contraindications:
Hypersensitivity to macrolides.
Do not use in horses or other equines as injection of tylosin in these animals may be fatal.

Dosage and administration:
For deep intramuscular (cattle, swine) or subcutaneous (sheep, goats) administration.
Cattle, sheep, goats .. 0.5 - 1 ml per 20 kg body weight once daily for up to 5 days
Swine................................. 1 ml per 20 kg body weight twice daily for up to 3 days
The dose volume in cattle should not exceed 15 ml at any one injection site.
The dose volume in swine should not exceed 5 ml at any one injection site.

Side effects:
Injection site reactions and, rarely, anaphylactic shock and death. In cattle vulvular swelling and in swine rectal mucosal oedema and mild anal protrusion with pruritis, erythema and diarrhoea has been reported.

Withdrawal times:
Meat and offal:
- Bovine, sheep and goats: 14 days
- Swine: 9 days
Injection site: 42 days.
Milk: 4 days.

Storage conditions:
Store dark and below 25°C. Do not freeze.
After first opening it should be stored in dark and refrigerated conditions (2 – 8°C)

Packing:
100 ml vials.
CLOXA-BEN DRY COW

Composition:
Each 9g syringe contains:
Cloxacillin benzathine ................................. 1 g

Description:
Cloxacillin benzathine, an antistaphylococcal penicillin, is primarily used for penicillin-G resistant organisms (e.g., beta-lactamase producing Staphylococcus spp.).

Indications:
For use in cows at drying off, to treat existing mastitis infections and to provide protection against further infections during the dry period.

Contraindications:
Do not use in lactating cows. Not intended for use within 49 days of calving. Do not use in animals with known hypersensitivity to the any of the ingredients.

Dosage and administration:
For single intramammary administration.
Disinfect the teats after the last milking at the start of the dry period and administer content of one injector per quarter. Treat all quarters.

Precautions and warnings:
Do not handle the product if you are known to be hypersensitive to penicillins. Avoid skin contact, wear gloves and wash hands after use. Rinse skin with water and soap in case of direct contact with product. If hypersensitivity reactions occur after use of this product, seek medical advice. Swelling of the face, lips or eyes or difficulty with breathing are serious symptoms and require urgent medical attention.

Withdrawal times:
Meat and offal: 28 days
Milk for human consumption may only be taken from 96 hours (that is, at the 8th milking in cows milked twice daily) after calving.

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
9 g syringes, 24 syringes per carton.
KANAPEN-P

Composition:
Each 10 g syringe contains:
Kanamycin sulphate................................. 50 mg
Procaine benzyl penicillin .................... 100,000 IU
Prednisolone acetate ................................. 40 mg

Description:
Formulated to treat the toughest forms of mastitis due to the synergistic and bactericidal action of kanamycin and penicillin, combined with the anti-phlogistic and anti-oedematous properties of prednisolone.

Indications:
Mastitis in lactating cattle caused by microorganisms susceptible to kanamycin and penicillin, including penicillinase-producing Staphylococcus and Streptococcus spp.

Contraindications:
Hypersensitivity to any of the ingredients.

Dosage and administration:
For single intramammary administration.
Clean and disinfect the teat and administer content of one injector per quarter.
If required, repeat after 24 hours.

Precautions and warnings:
Do not handle the product if you are known to be hypersensitive to penicillins.
Avoid skin contact, wear gloves and wash hands after use. Rinse skin with water and soap in case of direct contact with product. If hypersensitivity reactions occur after use of this product, seek medical advice. Swelling of the face, lips or eyes or difficulty with breathing are serious symptoms and require urgent medical attention.

Withdrawal times:
Meat and offal: 6 days
Milk: 4 days.

Storage conditions:
Store dark, dry and below 25°C. Do not freeze.

Packing:
10 g syringes, 24 syringes per carton.
DEXAMETHASON 0.2% INJ

Composition:
Contains per ml solution:
Dexamethasone (as disodium phosphate) ... 2 mg

Description:
Dexamethasone is a synthetic glucocorticosteroid with an intermediate duration of activity. It exhibits potent antiphlogistic, anti-inflammatory, anti-allergic, immune-suppressive and gluconeogenetic actions.

Indications:
Inflammatory and allergic conditions in cattle, horses, sheep, goats, swine, dogs and cats. Induction of parturition and treatment of primary ketosis in cattle.

Contraindications:
Pregnancy, viral or fungal infections, osteoporosis, impaired cardiac, renal or hepatic function, lactation, diabetes mellitus, hyperadrenocorticism, gastrointestinal ulcers.

Dosage and administration:
For parenteral administration (IM, IV, SC injections).
Horses, cattle................................. 5-15 ml
Foals, calves, sheep, goats, swine........ 1-3 ml
Piglets, dogs, cats........................... 0.25-0.5 ml
Horses (intraarticular)....................... 1 ml

Side-effects:
Polyuria, polydipsia and polyphagia, reduction in milk yield. Prolonged use may weaken resistance to or exacerbate existing infections and cause iatrogenic hyperadrenocorticism. Transitory local injection site reactions.

Precautions and warnings:
Use caution when administering concurrently with NSAIDs, cardiac glycosides, diuretics, insulin, phenobarbital, phenytoin and rifampicin.
Do not administer within two weeks of vaccination, except in emergency situations.
In the presence of bacterial infection, antibacterial drug cover is usually required. Keep treatment as short as possible. Prolonged treatment should be tapered off.

Withdrawal times:
Meat and offal: 7 days
Milk: 48 hours (4 milkings)
Do not slaughter animals during treatment period.

Storage conditions:
Store dark and below 25°C. Do not freeze.

Packing:
50 ml vials.
**DUFAPROFEN 10% INJ**

**Composition:**
Contains per ml solution:
Ketoprofen ............................................... 100 mg

**Description:**
Ketoprofen is a non-steroidal anti-inflammatory drug (NSAID) belonging to the arylpropionic acid group. Ketoprofen inhibits the biosynthesis of PGE$_2$ and PGF$_{2\alpha}$.

**Indications:**
For alleviation of pain, colic, inflammation, pyrexia, oedema and endotoxemia.

**Contraindications:**
Severe cardiac, hepatic or renal impairment, dehydration, hypovolemia or hypotension, gastrointestinal ulceration or bleeding, blood dyscrasias, hypersensitivity to ketoprofen. Do not use in pregnant mares.

**Dosage and administration:**
Horses .......................................... 1 ml per 45 kg once daily IV for up to 5 days
For colic, repeat after 2 to 12 hours if required.
Laminitic animals .......................................................... 1 ml per 27 kg IV once daily
Donkeys ............................................................... 1 ml per 45 kg twice daily IV for up to 5 days
Cattle, sheep and goats ...... 1 ml per 33 kg once daily IV or IM for up to 5 days
Swine ................................................................. 1 ml per 33 kg once daily IM for up to 5 days
For dogs and cats dilute 1 ml of Dufaprofen 10% inj in 9 ml of sterile water and dose 0.1 to 0.2 ml of this dilution per 1 kg IV, IM or SC once daily for up to 3 days.
The body weight should be determined with accuracy.

**Side effects:**
Due to the inhibition of prostaglandin synthesis, certain individuals may experience gastric or renal intolerance. Transitory local injection site reactions.

**Interactions:**
Do not administer concurrently with other NSAIDs, glucocorticosteroids, nephrotoxic or hepatotoxic drugs.

**Withdrawal times:**
Meat and offal: 1 day (IV route) or 4 days (IM route)
Milk: 0 days
Do not use in horses designated for human consumption or producing milk for human consumption.

**Storage conditions:** Store dark and below 25°C. Do not freeze.

**Packing:** 100 ml vials.
**PHENYL BUTAZON 20% INJ**

**Composition:**
Contains per ml solution:
Phenylbutazone ............................................. 200 mg

**Description:**
Phenylbutazone is a non-steroidal anti-inflammatory drug (NSAID) belonging to the pyrazolone group. Phenylbutazone inhibits the biosynthesis of PGE2 and PGF2α.

**Indications:**
Inflammation and acute or chronic pain associated with musculoskeletal conditions in horses, cattle and swine.

**Contraindications:**
Severe cardiac, hepatic or renal impairment, dehydration, hypovolemia or hypotension, gastrointestinal ulceration or bleeding, blood dyscrasias, hypersensitivity to phenylbutazone. Do not administer in pregnant animals.

**Dosage and administration:**
For very slow intravenous administration.
The recommended dose is no more than 4.4 mg phenylbutazone per kg body weight.
Horses, cattle and swine: up to 1 ml per 45 kg body weight per day for no more than 5 days.
The body weight of the animals should be determined with accuracy.

**Side effects:**
Rarely, collapse following intravenous injection. Due to the inhibition of prostaglandin synthesis, certain individuals may experience gastric or renal intolerance.

**Precautions and warnings:**
Administer strictly IV. Reduce dose in foals, calves, piglets and geriatric animals. Do not exceed 4 g (20 ml) per animal per day, regardless of weight. Discontinue if no significant clinical response is evident within 5 days. Do not administer concurrently with other NSAIDs, glucocorticosteroids, nephrotoxic or hepatotoxic, or highly plasma bound drugs.

**Withdrawal times:**
Do not use in animals producing milk for human consumption.
Do not use in animals intended for human consumption.

**Storage conditions:**
Store dark and below 25°C. Do not freeze.

**Packing:**
100 ml vials.
**KETAMIN 10% INJ**

**Composition:**
Contains per ml solution:
Ketamine (as HCl)................................. 100 mg

**Indications:**
To be used to induce anaesthesia in combination with α₂-agonists, benzodiazepines or neuroleptics. Ketamine is a potent dissociative anaesthetic agent and induces a state of catalepsy with amnesia and analgesia: muscle tone is maintained including the pharyngeal and laryngeal reflexes. Heart rate, blood pressure and cardiac output are increased; respiratory depression is not a noticeable feature. All these characteristics may be modified if the product is used in combination with other agents.

**Contraindications:**
Hypersensitivity to ketamine, hypertension, severe cardiac, hepatic or renal impairment, head trauma, seizure disorders, glaucoma or eye injuries.

**Dosage and administration:**
For parenteral administration (IM, IV). Note: all dosages are in mg per kg body weight.
- Dogs .......in combination with xylazine: 6-10 mg ketamine with 1-2 mg xylazine per kg body weight
- Cats ........in combination with xylazine: 8-20 mg ketamine with 1-2 mg xylazine per kg body weight
- Horses ....in combination with xylazine: 2.2 mg ketamine with 1.1 mg xylazine per kg body weight
- Cattle ......in combination with xylazine: 2-5 mg ketamine with 0.14-0.22 mg xylazine per kg body weight, after sedation or premedication
- Goats ......in combination with xylazine: 10 mg ketamine with 0.22 mg xylazine per kg body weight
- Swine ......in combination with azaperone: 15-20 mg ketamine with 2 mg azaperone per kg body weight

For other combinations and dosages, and other animal species please consult a veterinary drug handbook or other reliable pharmacotherapeutic source.
For a correct dosage, the body weight should be determined with accuracy.

**Side effects:**
Increased respiratory secretions, increased blood pressure, elevated heart rate, dose dependent respiratory depression, vocalisation, erratic and prolonged recovery, spastic jerking movements and muscle tremors. In rare instances, ketamine has been shown to induce seizures.
Please consult relevant package inserts for side effects of the drugs that may be used in combination with ketamine.

**Precautions and warnings:**
Do not use as a mono-anaesthetic. Eyes of patient stay open, apply eye ointment to prevent dehydration of the cornea. Sedated animals should remain under observation and segregated without water and feed until normal. Avoid direct skin contact to prevent sensitisation and contact dermatitis, wash off splashes from the skin and eyes immediately. This is a potent drug; particular
care should be taken to avoid accidental self-administration. In the event of accidental self-administration, seek urgent medical attention and show this datasheet to the doctor. Do not drive! Advice to doctor: Do not leave patient unattended. Maintain airways and give symptomatic and supportive treatment.

**Interactions:**
Narcotics, barbiturates and diazepam may prolong the recovery time after ketamine anaesthesia. Halothane prolongs the half-life of ketamine and inhibits the cardiac stimulatory effects. Chloramphenicol may prolong the anaesthetic actions of ketamine. Neuromuscular blockers (e.g. succinylcholine) may cause enhanced or prolonged respiratory depression.

**Withdrawal times:**
0 days.

**Storage conditions:**
Store below 25°C. Do not freeze.

**Packing:**
25 ml vials.
XYLAZIN 2% INJ

Composition:
Contains per ml solution:
Xylazine (as HCl) ............................. 20 mg

Description:
Xylazine is an alpha-2 agonist with sedative, some analgesic and muscle relaxant properties. Sedation is dose-dependent, usually maintained for 1 to 2 hours, while analgesia lasts from 15 to 30 minutes. The centrally-acting muscle relaxant effect causes relaxation of the skeletal musculature, complementing sedation and analgesia. A strong emetic effect is usual in cats and dogs. Xylazine induces strong cardiovascular effects e.g. bradycardia and increased blood pressure. Hyperglycaemia is also induced. α2-adrenoceptor blockers such as yohimbine and atipamezole may reverse the effects of xylazine.

Indications:
Sedation, premedication for surgery and local or regional anaesthesia, in cattle, horses, sheep, goats, dogs and cats.

Contraindications:
Use with care in elderly or debilitated patients which may be adversely affected by profound cardiovascular changes. Use with caution in the first month of pregnancy. Do not use in the latter stages of pregnancy except at parturition.

Dosage and administration:
For intramuscular (IM), intravenous (IV) or subcutaneous (SC) administration.
Cattle, IM ........0.25 – 1.5 ml per 100 kg body weight
Horses, IV .............. 3 – 5 ml per 100 kg body weight
Sheep, IM ............0.1 – 0.25 ml per 10 kg body weight
Goats, IM ............0.025 – 0.1 ml per 10 kg body weight
Dogs, IM ............. 0.05 – 0.15 ml per kg body weight
Cats, IM ...................... 0.15 ml per kg body weight
For combinations and dosages, and other animal species please consult a veterinary drug handbook or other reliable pharmacotherapeutic source.
For a correct dosage, the body weight should be determined with accuracy.

Side effects:
Bradycardia, hypotension and vomiting. After high dosages (cattle: 3 ml per 100 kg; horses: 10 ml per 100 kg) respiratory depression can occur. Recumbent ruminants can become tympanic.

Interactions:
Horses: concurrent intravenous use of potentiated sulphonamides with alpha-2 agonists has been reported to cause fatal cardiac arrhythmias. Do not combine with neuroleptics or tranquilizers. Barbiturates have an additive effect and concurrent use may cause enhanced or prolonged respiratory depression and myocardial damage.
Precautions and warnings:
Keep the animals as calm as possible during administration and procedure. Animals can still react on approach (kicking) and resist against procedures whilst sedated. Sedated animals should remain under observation and segregated without water and feed until normal.
Avoid direct skin contact to prevent sensitisation and contact dermatitis, wash off splashes from the skin and eyes immediately.
This is a potent drug; particular care should be taken to avoid accidental self-administration.
In the event of accidental self-administration, seek urgent medical attention and show this datasheet to the doctor. Do not drive!
Advice to doctor: Do not leave patient unattended, Xylazin 2% inj is an alpha2- adrenoreceptor agonist. Maintain airways and give symptomatic and supportive treatment.

Withdrawal times:
0 days.

Storage conditions:
Store below 25°C. Do not freeze.

Packing:
25 ml vials.
**DUFAPIRIN C+K3 W.S.P.**

**Composition:**
Contains per g watersoluble powder:
- Sodium salicylate ..................................... 300 mg
- Ascorbic acid (C) ...................................... 250 mg
- Menadione sodium bisulfite (K3) ............. 25 mg

**Description:**
Sodium salicylate is an anti-inflammatory, anripyretic and analgesic agent belonging to the non-steroidal anti-inflammatory drugs group (NSAIDs).
Vitamin C (ascorbic acid) is essential for the formation and maintainence of the normal function of skeletal tissues and exerts an important influence to the reproductive system.
Vitamin K3 (as menadione sodium bisulfite) plays an important role in the coagulation process of blood and also in the cell respiration process.

**Indications:**
For the treatment of pain, inflammation and pyrexia as anti-pyretic, analgesic, anti-inflammatory, antiphlogistic and platelet anti-aggregating in viral infections, acute bacterial processes or infective syndromes. For osteoarticular and muscular disorders, rheumatoid episodes, fewer syndroms, heating stress in calves, swine and broilers.

**Contraindications:**
Do not use in suckling animals or dehydrated animals. Do not use in animals with digestive tractus disorders, especially in case of gastro-intestinal ulcerations and/or haemorrhagie and neither in case of pre-existing cardiac, renal or hepatic disease. Do not use in case of hypersensitivity to the active substances. It can provoke stomach injuries especially in sensitive animals.

**Dosage and administration:**
For oral administration in drinking water.
- Broilers: 0.1 g per kg body weight, or 100 g per 200 litres of drinking water for 1000 birds, per day, for maximum 5 days.
- Calves and swine: 0.1 g per kg body weight, per day, for maximum 5 days.
Medicated water should be used immediately and refreshed every 24 hours for the duration of the treatment. The body weight should be determined with accuracy.

**Precautions and warnings:**
Do not mix with feed. Avoid combination with other non-steroidal anti-inflammatory drugs and with amino-glycoside antibiotics. Do not mix with other veterinary medicinal products. Do not exceed the recommended dosage levels. For pregnancy, lactation, laying: use only according to the benefit/risk assessment by the responsible veterinarian.

**Withdrawal times:**
Meat and offal: 0 days.
Do not use in animals producing milk or eggs for human consumption.
Storage conditions:
Store dry and below 25°C. Do not freeze.

Packing:
1 kg jars.
OXYTOCINE 10 I.U./ML INJ

Composition:
Contains per ml solution:
Oxytocin.......................................................... 10 IU

Description:
Stimulation of smooth muscle in the oestrogen sensitised uterus. Action on the mammary gland stimulates milk let down.

Indications:
Uterine inertia during parturition, postpartum bleeding, retained placenta and metritis, uterine involution after manual correction of prolapsed uterus, agalactia.

Contraindications:
Do not use in case of dystocia caused by abnormal presentation or foetal size or in other situations where vaginal delivery is contraindicated.

Dosage and administration:
Administration by deep intramuscular injection:
Mares, cows, sows........... 1 – 4 ml
Ewes, goats................. 0.2 – 1 ml
Dogs........................... 0.2 – 1 ml
Cats........................... 0.2 – 0.5 ml
Recommended dose for intravenous injection: 25% of intramuscular dose, diluted 1:10 in sterile water for injections.
Where speed of onset is not a priority, the product may be given by the subcutaneous route.

Precautions and warnings:
Only administer when cervix is confirmed to be dilated, either naturally or by prior administration of oestrogens. Care should be taken to avoid accidental self-injection. Should self-injection occur, medical advice should be sought immediately. Women, particularly during lactation or the later stages of pregnancy, should avoid handling the product as it could cause smooth muscle (e.g. uterine) contraction.

Withdrawal times:
0 days.

Storage conditions:
Store below 25°C. Do not freeze.
After first opening it should be stored in dark and refrigerated conditions (2 – 8°C).

Packing:
50 ml vials.
DUFA-AQUA

Composition:
Dufa-Aqua is a silver stabilized 49.4 wt% hydrogen peroxide (H\textsubscript{2}O\textsubscript{2}) solution in water; using stabilizers and supporting components. Relative density at 20°C is 1.2 g/ml.

Description:
Dufa-Aqua is a powerful and very effective drinkingwater system cleaner and disinfectant. It removes the biofilm completely from the whole drinkingwater system and disinfects the water in such way that all pathogenic microorganisms are eliminated and can no longer infect the animals. Dufa-Aqua can be used in any drinkingwater system. It is a highly oxidative cleaning product, no toxic ingredients are used and there is no effect on the smell and the taste of the drinkingwater.

Fight Footh- and Mouth Disease (FMD) with Dufa-Aqua! Dufa-Aqua shows excellent effect on many viruses and microbes, and is a simple and useful weapon against many highly pathogenic and virulent agents like the FMD virus, especially on live animal tissues.

Dufa-Aqua is 100% soluble in water and can be used in the presence of animals. Dufa-Aqua is effective at very low concentrations. No withdrawal period is applicable.

Using Dufa-Aqua is safe for people, animals and equipment!

Directions for use:
- Preventive treatment:
Contamination will be avoided by adding 50-100ml Dufa-Aqua to 1,000 litres of drinkingwater during one day, immediately after the use of an additive through the drinkingwater system.

- Cleaning and disinfection of drinkingwater systems in empty barns:
Fill the drinkingwater system with a 1-3% Dufa-Aqua solution (1-3 litre Dufa-Aqua per 100 litres of water), including the nozzles, cups and towers to ensure the cleaning and disinfection of the whole system. Ensure to have an air outlet in the system.
Leave the solution for 12 hours in the system. Care for sufficient ventilation in the barn.
After 12 hours, rinse the complete drinkingwater system with clean water.

- Cleaning and disinfection of drinkingwater systems in populated barns:
Initially, start with a low dosage of 0.005% Dufa-Aqua (50 ml Dufa-Aqua per 1,000 litres drinkingwater). Increase the dosage every two days with 50ml, till a maximum dosage of 0.025% (250 ml Dufa-Aqua per 1,000 litres drinkingwater) has been reached.
In case the water intake changes, the dosage should be adjusted.

- Footh and mouth disease (FMD):
Slowly add 100 ml Dufa-Aqua to 10 litres of clean tap water to make a 1% dilution.
Use a sprayer to apply 20 ml of the prepared solution inside the mouth or between and on top of the hooves. Repeat this treatment at least 3 times per day. There is no limitation on the use of the product. Use the prepared solution within 24 hours.

In case of severe biofilm / pathogenic bacteria pollution, a water analysis is recommended. In such case, clean the drinkingwater system first when the animals are not present.
Precautions and warnings:
Pure Dufa-Aqua is strongly burning. Only use this product by wearing gloves. In case of contact with the skin, wash the burned area with clean tap water and Avoid contact with eyes!

Storage conditions:
Store only in the original container in a secure, well-ventilated area out of reach of children and domestic animals. Store between 0 and 30°C. Keep container closed when not in use.

Packing:
5 litre, 10 litre and 20 litre cans.
DUFA-CLEAN

Composition:
Contains an optimized blend of caustic alkali, organic sequestrants and high foaming surfactants and wetting agents.

Description:
Dufa-Clean is a powerful alkaline foam cleaner with excellent adhesive foaming properties. The foam film contains a highly concentrated blend of caustic alkali, surfactants and wetting agents and has proven to be highly effective in penetrating heavy pollution and grease. For cleaning and sanitizing of surfaces. For use in agricultural and food industry. Excellent adhesive foaming properties.

Directions for use:
Remove pollution manually.
Dilute 30-50 ml Dufa-Clean per litre of water.
Apply Dufa-Clean with cold water at minimum 3 bar with a foam lance. The foam formation can be controlled by adjusting the distance of the foam lance to the surface to be treated, and by adjusting the water pressure.
Apply the foam as a thin layer on the surface.
The contact time is 10-20 minutes, depending on the pollution.
Rinse afterwards with cold water at high or low pressure.

Precautions:
Dufa-Clean may not be used on soft metals, like aluminium and galvanized metals. In case of doubt, try the product on the individual materials first, before applying it to the whole surface.
Always rinse surfaces thoroughly within 1 hour after use.

Storage conditions:
Store only in the original container in a secure, well-ventilated area out of reach of children and domestic animals.
Store and use at temperatures above 0ºC.
Keep container closed when not in use.

Packing:
1 ltr bottles, 6 kg, 11 kg and 22 kg cans.
DUFA-DES

Composition:
Contains per litre:
Glutaraldehyde....................................................... 125 g
Didecyldimethylammonium chloride ....................... 100 g
Alkyldimethylbenzylammonium chloride ................. 150 g

Description:
Dufa-Des is a powerful multipurpose glutaraldehyde/quaternary ammonium/surfactants based disinfectant for the disinfection of hatcheries, livestock housing facilities, livestock trucks, trailers and equipment, processing areas and equipment, and warehouses. Also suitable for use in footbaths and as wheel sanitizer. Broad spectrum, rapid action and non-corrosive. Active over a wide pH range and in the presence of proteins and other organic material. Where Dufa-Des is applied, bacteria, yeasts and viruses will be eliminated.

Directions for use:
Clean and rinse polluted surfaces before disinfecting. Afterwards, rinse the surfaces with clean water. Excessive water should be removed.
Use sufficient Dufa-Des solution to cover the whole surface during the recommended contact time. Ventilate well during treatment.

Dosage and contact-time:
For spraying of surfaces, add 2.5-5 ml to every litre of water. 1 litre is sufficient to treat 4 m². Leave the spray on the surfaces for residual action.
For application by fogging, add 1 litre to 4 litres of water (1:4 dilution), which can be used for 1000 m³.
For foaming: add 2.5-5 ml to every litre of water (1:400 – 1: 100 dilution). Cover equipment and walls with a layer of foam and let it dry.
For dipping: Utensils 5 ml per litre of water. Hatching eggs 3 ml per litre of water.
For populated chicken barns: knap sack spraying: 1 litre solution per 10 m² surface (0.25 – 0.5%); pressurized misting: 0.1 – 0.25% per m³ for 5 minutes.
As shoe bath or wheel sanitizer, add 5-10 ml to every litre of water (0.5 – 1.0%)
For effective action, surfaces must remain wet for at least 5 minutes.

Storage conditions:
Store only in the original container in a secure, well-ventilated area out of reach of children and domestic animals. Store between 0 and 30ºC. Keep container closed when not in use.

Packing:
1 litre bottles, 5 litre, 10 litre and 20 litre cans.
DUFA-DINE 1.8%

Composition:
Iodine... 1.8%, equivalent to 18,000 ppm

Description:
DuFa-Dine is a powerful multipurpose iodophor disinfectant for one-step cleaning and disinfection in food plants, livestock buildings and veterinary clinics. Suitable for use as no rinse food plant sanitizer and poultry drinking water sanitizer. Regular use in the drinking water also helps control biofilm and mineral deposits in waterers. Broad spectrum, rapid action and non-corrosive and non-irritation to skin in diluted form. Effective in cold and hard water.

Directions for use:
For use on walls, floors, appliances, furnishings, utensils and equipment composed of hard, non-porous, inanimate surfaces (glass, stainless steel, galvanized metal, porcelain, linoleum, tile, enamelled and finished wood surfaces). Prepare fresh solutions daily. Do not reuse solutions. Discard solutions that are visibly soiled. Apply solutions by flooding, immersion, swabbing, mopping, spraying or brushing to thoroughly wet all surfaces.

For disinfection in food plants and veterinary clinics add 7.5 ml to every 1 litre of water for one-step cleaning and disinfecting of light and moderately soiled surfaces. Heavily soiled surfaces should be cleaned and rinsed before disinfecting. For effective action, surfaces must remain wet for at least 15 minutes. Food contact surfaces and all surfaces in edible food processing areas of meat and poultry plants must be rinsed with potable water before reuse when using iodine disinfectant at this concentration. Always carefully protect or remove food and packaging materials from the area to be disinfected.

For disinfection of farm premises and poultry houses, first remove all animals, poultry and feed from premises. Remove all litter and manure from surfaces occupied or traversed by livestock. Empty all troughs, racks, and other feeding and watering equipment. Then clean and disinfect as above. Ventilate buildings, coops and other closed spaces. Do not house animals or poultry until treatment has been absorbed, set or dried.

For sanitization of poultry drinking water add 40-50 ml to every 100 litres of water. Regular use in the drinking water also helps control biofilm and mineral deposits in waterers.

For sanitizing hands of food handlers in meat and poultry processing plants, rinse hands with water and immerse hands in a 15 ml per 10 litres of water sanitizing solution for 30-60 seconds.

As shoe bath sanitization, to help prevent tracking disease organisms into poultry houses, farrowing houses and hog barns, place a shoe bath with 30 ml added to each litre of water inside the doorway.
For cleaning of sows before placing in farrowing pens or crates, scrub down flanks and udder with lukewarm solution of 7 ml added to every 1 litre of water. Use a soft-bristled brush. Let sow drain dry and do not rinse until just before farrowing.

**Storage conditions:**
Store only in the original container in a secure, well-ventilated area out of reach of children and domestic animals. Store between 0 and 30ºC. Keep container closed when not in use.

**Packing:**
5 litre cans.
**ALLROUND CAMEL**

**Analytical constituents:**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Percentage</th>
<th>Analytical Constituent</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>85%</td>
<td>Calcium</td>
<td>0.03 g/kg</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.36%</td>
<td>Magnesium</td>
<td>0.02 g/kg</td>
</tr>
<tr>
<td>Crude protein</td>
<td>1.13%</td>
<td>Sodium</td>
<td>0.04 g/kg</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.01%</td>
<td>Phosphorus</td>
<td>0.01 g/kg</td>
</tr>
<tr>
<td>Calcium</td>
<td>23.6%</td>
<td>Lysine</td>
<td></td>
</tr>
<tr>
<td>Magnesium</td>
<td>0.29%</td>
<td>Methionine</td>
<td></td>
</tr>
<tr>
<td>Sodium</td>
<td>0.10%</td>
<td>Threonine</td>
<td></td>
</tr>
<tr>
<td>Phosphorus</td>
<td>1.4%</td>
<td>Thryptopan</td>
<td></td>
</tr>
</tbody>
</table>

**Composition:**

Calcium carbonate, wheat feed flour.

**Additives (per kg)**

**Nutritional additives**

- **Trace elements:** 7,000 mg Fe (3b103 Iron(II)sulphate monohydrate); 120 mg I (3b202 Calcium iodate); 94 mg Co (3b304 Coated granulated cobalt(II)carbonate); 1,500 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 6,000 mg Mn (3b502 Manganese(II)oxide); 6,000 mg Zn (3b605 Zinc sulphate monohydrate); 3,000 mg Zn (3b607 Zn chelate or glycine hydrated); 25 mg Se (3b801 Sodium Selenite)
- **Vitamins:** 1,600,000 IU Vitamin A (3a672a Retinyl acetate); 200,000 IU Vitamin D3 (3a671); 42,500 mg Vitamin E (3a700 dl-tocopherol); 350 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 700 mg Vitamin B1 (3a821 Thiamine mononitrate); 800 mg Vitamin B2 (Riboflavin); 2,500 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 4,000 mcg Vitamin B3 (3a315 Niacinamide); 200 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 4,000 mcg Vitamin B12 (Cyanocobalamin); 175 mg Vitamin B9 (3a316 Folic acid); 20,000 mg Vitamin B4 (3a890 Choline chloride); 15,000 mcg Vitamin H (3a880 Biotin); 50,000 mg Vitamin C (3a311 Sodium ascorbyl phosphate)

**Technological additives**

- **Antioxidants:** 30mg Citric acid (E330); 120.6 mg B.H.T (E321); 9.9 mg Propyl gallate (E310)
- **Anti-caking agent:** 70 mg Colloidal silica (E551b)

**Description:**

DufaMix Allround Camel is a complex formulation designed especially for camels. DufaMix Allround Camel consist the essential elements that camels needs. It keeps the camel in a good condition and gives prevention against several diseases and productions losses caused by dietary insufficiencies. DufaMix Allround Camels is designed to offer you a good quality at a fair price.

**Inclusion rates:**

Recommended rate of inclusion: 10 kg per tonne in the final feed

**Storage conditions:**

Store dry, dark and below 25°C. Do not freeze.

**Packing:**

10 kg and 25 kg sacks.
ALLROUND CATTLE

Analytical constituents:
98.3 % ........... Crude ash 15 %.................. Calcium 0.0 g/kg .............. Lysine
0.002 % ..... Crude protein 25 %.............. Magnesium 0.0 g/kg .......... Methionine
0.001 % .......... Crude fat 0.02 %................ Sodium 0.0 g/kg .......... Threonine
0.001 % ......... Crude fibre 0 % ............... Phosphorus 0.0 g/kg .......... Tryptophan

Composition:
Calcium-Magnesium oxide carbonate, Magnesium oxide, Calcium carbonate.

Additives (per kg)
Nutritional additives
Trace elements: 100 mg I (3b201 Potassium Iodide); 50 mg Co (3b304 Coated granulated cobalt(II)carbonate); 1,500 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 3,000 mg Mn (3b502 Manganese(II)oxide); 3,000 mg Zn (3b603 Zinc oxide); 25 mg Se (3b801 Sodium Selenite)
Vitamins: 750,000 IU Vitamin A (3a672a Retinyl acetate); 150,000 IU Vitamin D3 (3a671); 1,000 mg Vitamin E (3a700 dl-tocopherol)

Technological additives
Antioxidants: 30 mg Citric acid (E330); 120.6 mg B.H.T (E321); 9.9 mg Propyl gallate (E310)
Anti-caking agent: 70 mg Colloidal silica (E551b)

Description:
DufaMix Allround Cattle is a comprehensive feed premix, suitable for calves, heifers, bred cows, bulls, lactating cows and goats by simple adjustment of the inclusion rate. DufaMix Allround Cattle provides a broad variety of optimally balanced essential vitamins, trace elements and minerals in one easy-to-use and efficient formulation. DufaMix Allround Cattle allows your animals to reach their full potential by preventing unnecessary production losses caused by dietary insufficiencies.

Inclusion rates:
Lactating cows ......................... 12.50 kg DufaMix per tonne of feed
All other categories ............. 7.50 – 10.00 kg DufaMix per tonne of feed

Precautions and warnings:
This premixture contains copper at levels that may be toxic to sheep!

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
10 kg and 25 kg sacks.
**ALLROUND GOAT**

**Analytical constituents:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Constituent</th>
<th>Amount (g/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>98.4 %</td>
<td>Calcium</td>
<td>36.3 %</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.0 %</td>
<td>Magnesium</td>
<td>1.76 %</td>
</tr>
<tr>
<td>Crude protein</td>
<td>0.0 %</td>
<td>Sodium</td>
<td>0.19 %</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.0 %</td>
<td>Phosphorus</td>
<td>0.0 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lysine</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methionine</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Threonine</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tryptophan</td>
<td>0.0 g/kg</td>
</tr>
</tbody>
</table>

**Composition:**

Calcium carbonate.

**Additives (per kg)**

**Nutritional additives**

- Trace elements: 100 mg I (3b202 Calcium iodate anhydrous); 50 mg Co (3b304 Coated granulated cobalt(II)carbonate); 1,500 mg Cu (3b405 Cupric(II) sulphate-pentahydrate); 5,000 mg Mn (3b502 Manganese(II)oxide); 6,000 mg Zn (3b603 Zinc oxide); 10 mg Se (3b801 Sodium Selenite)
- Vitamins: 900,000 IU Vitamin A (3a672a Retinyl acetate); 175,000 IU Vitamin D3 (3a671); 4,000 mg Vitamin E (3a700 dl-tocopherol)

**Description:**

Vitamins, trace elements and minerals are essential for goats. DufaMix Allround Goat is based on the needs of goats. This premixture is appropriate for all goats including lactating goats. DufaMix Allround Goat is easy-to-use and the formulation is essential. DufaMix Allround Goat allows your animals to reach their full potential by preventing unnecessary production losses caused by dietary insufficiencies.

**Inclusion rates:**

Recommended rate of inclusion...................... 10 kg per tonne in the final feed

**Precautions and warnings:**

This premixture contains copper at levels that may be toxic to sheep!

**Storage conditions:**

Store dry, dark and below 25°C. Do not freeze.

**Packing:**

10 kg and 25 kg sacks.
**ALLROUND PIG**

**Analytical constituents:**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Percentage</th>
<th>Complement</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>94.6 %</td>
<td>Calcium</td>
<td>0.03 g/kg</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.36 %</td>
<td>Magnesium</td>
<td>0.02 g/kg</td>
</tr>
<tr>
<td>Crude protein</td>
<td>0.60 %</td>
<td>Sodium</td>
<td>0.03 g/kg</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.01 %</td>
<td>Phosphorus</td>
<td>0.01 g/kg</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>29.9 %</td>
<td>Lysine</td>
<td>0.03 g/kg</td>
</tr>
<tr>
<td>Magnesium</td>
<td>0.36 %</td>
<td>Methionine</td>
<td>0.02 g/kg</td>
</tr>
<tr>
<td>Sodium</td>
<td>0.03 %</td>
<td>Threonine</td>
<td>0.03 g/kg</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>0.004 %</td>
<td>Tryptophan</td>
<td>0.01 g/kg</td>
</tr>
</tbody>
</table>

**Composition:**

Calcium carbonate.

**Additives (per kg)**

**Nutritional additives**
- Trace elements: 8,000 mg Fe (3b103 Iron(II)sulphate monohydrate); 100 mg I (3b201 Potassium Iodide); 1,500 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 4,000 mg Mn (3b502 Manganese(II) oxide); 10,000 mg Zn (3b603 Zinc oxide); 25 mg Se (3b801 Sodium Selenite)
- Vitamins: 650,000 IU Vitamin A (3a672a Retinyl acetate); 200,000 IU Vitamin D3 (3a671); 3,000 mg Vitamin E (3a700 dl-tocopherol); 150 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 200 mg Vitamin B1 (3a821 Thiamine mononitrate); 400 mg Vitamin B2 (Riboflavin); 1,250 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 3,500 mg Vitamin B3 (3a315 Niacinamide); 200 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 3,000 mcg Vitamin B12 (Cyanocobalamin); 50 mg Vitamin B9 (3a316 Folic acid); 20,000 mg Vitamin B4 (3a890 Choline chloride); 5,000 mcg Vitamin H (3a880 Biotin)

**Technological additives**
- Antioxidants: 30 mg Citric acid (E330); 120.6 mg B.H.T (E321); 9.9 mg Propyl gallate (E310)
- Anti-caking agent: 70 mg Colloidal silica (E551b)

**Description:**

DufaMix Allround Pig is designed to provide a premium premix feed solution to your animals at all stages of the breeding and rearing process. DufaMix Allround Pig contains essential vitamins, trace elements and minerals in a specially formulated ration for optimizing fertility, litter size and growth. By varying the inclusion rate at the different stages of production, DufaMix Allround Pig will help you achieve the best possible results on your facilities in the most cost-effective way.

**Inclusion rates:**

- Feeder and grower pigs 15-50 kg: 10.00 kg per tonne of feed
- Grower and finisher pigs >50 kg: 7.50 kg per tonne of feed
- Sows: 12.50 kg per tonne of feed

**Storage conditions:**

Store dry, dark and below 25°C. Do not freeze.

**Packing:**

10 kg and 25 kg sacks.
**ALLROUND POULTRY**

**Analytical constituents:**
- 93.4% ........ Crude ash
- 0.54% ........ Crude fibre
- 2.78% ...... Crude protein
- 0.01% .......... Crude fat
- 29.7% ........ Calcium
- 0.35% .......... Magnesium
- 0.03% ........ Sodium
- 0.00% .......... Phosphorus
- 0.04 g/kg .......... Lysine
- 0.03 g/kg ......... Methionine
- 0.05 g/kg ........ Threonine
- 0.01 g/kg ...... Tryptophan

**Composition:**
- Calcium carbonate.

**Additives (per kg)**

**Nutritional additives**
- Trace elements: 6,000 mg Fe (3b103 Iron(II)sulphate monohydrate); 150 mg I (3b201 Potassium Iodide); 1,500 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 7,000 mg Mn (3b502 Manganese(II) oxide); 6,000 mg Zn (3b603 Zinc oxide); 25 mg Se (3b801 Sodium Selenite)
- Vitamins: 1,000,000 IU Vitamin A (3a672a Retinyl acetate); 300,000 IU Vitamin D3 (3a671); 3,000 mg Vitamin E (3a700 dl-tocopherol); 200 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 150 mg Vitamin B1 (3a821 Thiamine mononitrate); 400 mg Vitamin B2 (Riboflavin); 1,250 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 3,500 mg Vitamin B3 (3a315 Niacinamide); 300 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 3,000 mcg Vitamin B12 (Cynacobalamin); 100 mg Vitamin B9 (3a316 Folic acid); 30,000 mg Vitamin B4 (3a890 Choline chloride); 10,000 mcg Vitamin H (3a880 Biotin)

**Technological additives**
- Antioxidants: 30 mg Citric acid (E330); 120.6 mg B.H.T (E321); 9.90 mg Propyl gallate (E310)
- Anti-caking agent: 70 mg Colloidal silica (E551b)

**Description:**
DufaMix Allround Poultry is our most versatile feed premix for poultry, containing balanced amounts of vitamins, trace elements and minerals. DufaMix Allround Poultry is added to the formulated diet to meet the requirements for optimal production and feed conversion, and can be used in all production stages simply by adjusting the inclusion rate. This way all your farm’s most crucial needs can be met by just one high-quality / low-cost product. DufaMix Allround Poultry is designed to offer you excellent quality at a fair price.

**Inclusion rates:**
- Laying hens: ...... ≥7.50 kg per tonne of feed
- Broilers starter: .... 12.50 kg per tonne of feed
- Broilers grower: . 10.00 kg per tonne of feed
- Broilers finisher: .. 7.50 kg per tonne of feed

**Storage conditions:**
- Store dry, dark and below 25°C. Do not freeze.

**Packing:**
- 10 kg and 25 kg sacks.
**ALLROUND SHEEP**

**Analytical constituents:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Constituent</th>
<th>Percentage</th>
<th>Nutrient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>98.5 %</td>
<td>Calcium</td>
<td>25.8 %</td>
<td>Lysine</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.0 %</td>
<td>Magnesium</td>
<td>9.2 %</td>
<td>Methionine</td>
</tr>
<tr>
<td>Crude protein</td>
<td>0.0 %</td>
<td>Sodium</td>
<td>0.07 %</td>
<td>Threonine</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.0 %</td>
<td>Phosphorus</td>
<td>0.0 %</td>
<td>Tryptophan</td>
</tr>
</tbody>
</table>

**Composition:**
Calcium-Magnesiumoxide carbonate, Calcium carbonate.

**Additives (per kg)**

**Nutritional additives**
- Trace elements: 2,000 mg Fe (3b103 Iron(II)sulphate monohydrate); 100 mg I (3b201 Potassium Iodide); 80 mg Co (3b304 Coated granulated cobalt(II)carbonate); 3,000 mg Mn (3b502 Manganese(II)oxide); 7,000 mg Zn (3b603 Zinc oxide); 150 mg Mo (3b701 Sodium molybdate dehydrate); 20 mg Se (3b801 Sodium Selenite)
- Vitamins: 800,000 IU Vitamin A (3a672a Retinyl acetate); 200,000 IU Vitamin D3 (3a671); 1,500 mg Vitamin E (3a700 dl-tocopherol)

**Description:**
DufaMix Allround Sheep is our comprehensive premix for sheep. DufaMix Allround Sheep contains a balanced amount of different vitamins, minerals and trace elements. This composition consist of the essential needs for sheep of different ages. DufaMix Allround Sheep is designed to optimize animal health and promote growth.

**Inclusion rates:**
Recommended rate of inclusion ........................................ 10 kg per tonne in the final feed

**Storage conditions:**
Store dry, dark and below 25°C. Do not freeze.

**Packing:**
10 kg and 25 kg sacks.
**BROILER STARTER**

**Analytical constituents:**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Constituent</th>
<th>Percentage</th>
<th>Constituent</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>75.8 %</td>
<td>Crude ash</td>
<td>14.9 %</td>
<td>Calcium</td>
<td>67.49 g/kg</td>
</tr>
<tr>
<td>0.51 %</td>
<td>Crude fibre</td>
<td>0.56 %</td>
<td>Magnesium</td>
<td>102.7 g/kg</td>
</tr>
<tr>
<td>15.6 %</td>
<td>Crude protein</td>
<td>5.16 %</td>
<td>Sodium</td>
<td>18.17 g/kg</td>
</tr>
<tr>
<td>0.34 %</td>
<td>Crude fat</td>
<td>6.82 %</td>
<td>Phosphorus</td>
<td>0.01 g/kg</td>
</tr>
</tbody>
</table>

**Composition:**

Monocalcium phosphate, Calcium carbonate, Sodium bicarbonate, Sodium chloride.

**Additives (per kg)**

**Nutritional additives**

- Trace elements: 2,600 mg Fe (3b103 Iron(II)sulphate monohydrate); 100 mg I (3b202 Calcium iodate); 600 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 3,200 mg Mn (3b502 Manganese(II)oxide); 3,200 mg Zn (3b605 Zinc sulphate monohydrate); 12 mg Se (3b801 Sodium Selenite)

- Vitamins: 540,000 IU Vitamin A (3a672a Retinyl acetate); 160,000 IU Vitamin D3 (3a671); 2,800 mg Vitamin E (3a700 dl-tocopherol); 120 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 140 mg Vitamin B1 (3a821 Thiamine mononitrate); 300 mg Vitamin B2 (Riboflavin); 3,000 mg Vitamin B3 (3a315 Niacinamide); 700 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 240 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 1,400 mcg Vitamin B12 (Cyanocobalamin); 80 mg Vitamin B9 (3a316 Folic acid); 16,000 mg Vitamin B4 (3a890 Choline chloride); 10,000 mcg Vitamin H (3a880 Biotin)

**Technological additives**

- Antioxidants: 200 mg Citric acid (E330); 66.7 mg B.H.T (E321); 66.7 mg Propyl gallate (E310).

**Anti-caking agents:** 100 mg Colloidal silica (E551b)

**Zootechnical additives**

- Digestibility enhancers: 40,000 FYT 6-Phytase (4a18); 22,400 TXU Endo-1,4-β-xylanase (4a1602i); 10,000 TGU Endo-1,3(4)-β-glucanase (4a1602i)

- Coccidiostats

- 2,400 mg Salinomycin sodium (51776)

**Description:**

Broilers have different feed requirements in terms of energy, proteins and minerals during different stages of their growth. It is important to adapt feed rations to these requirements for maximum production. Young broilers have a high protein requirement for the development of muscles, feathers, etc. As the broilers grow their energy requirements for the deposit of fat increase and their protein requirements decrease. DufaMix Broiler Starter is a premixture formulated to establish good appetite and achieve maximum early growth when included in corn and soybean meal based diets. An anticoccidial and enzymes are included for improved feed conversion, digestion and the reduction of wet droppings.
**Inclusion rate:**
To be included in feed for approximately 5 to 12-day old broilers. The recommended inclusion rate for DufaMix Broiler Starter is 25 kg per tonne of feed.

**Storage conditions:**
Store dry, dark and below 25°C. Do not freeze.

**Packing:**
10 and 25 kg sacks.
BROILER GROWER

Analytical constituents:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>75.6%</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.44%</td>
</tr>
<tr>
<td>Crude protein</td>
<td>16.5%</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.34%</td>
</tr>
<tr>
<td>Crude ash</td>
<td>15.4%</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.64%</td>
</tr>
<tr>
<td>Crude protein</td>
<td>5.0%</td>
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<tr>
<td>Crude fat</td>
<td>4.7%</td>
</tr>
<tr>
<td>Calcium</td>
<td>15.4%</td>
</tr>
<tr>
<td>Magnesium</td>
<td>0.64%</td>
</tr>
<tr>
<td>Sodium</td>
<td>5.0%</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>4.7%</td>
</tr>
<tr>
<td>Lysine</td>
<td>72.25 g/kg</td>
</tr>
<tr>
<td>Methionine</td>
<td>101.1 g/kg</td>
</tr>
<tr>
<td>Threonine</td>
<td>23.59 g/kg</td>
</tr>
<tr>
<td>Tryptophan</td>
<td>0.01 g/kg</td>
</tr>
</tbody>
</table>

Composition:
Calcium carbonate, Monocalcium phosphate, Sodium bicarbonate, Sodium chloride.

Additives (per kg)
Nutritional additives
Trace elements: 2,400 mg Fe (3b103 Iron(II)sulphate monohydrate); 80 mg I (3b202 Calcium iodate); 600 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 2,800 mg Mn (3b502 Manganese(II)oxide); 2,800 mg Zn (3b605 Zinc sulphate monohydrate); 10 mg Se (3b801 Sodium Selenite)
Vitamins: 400,000 IU Vitamin A (3a672a Retinyl acetate); 120,000 IU Vitamin D3 (3a671); 1,600 mg Vitamin E (3a700 dl-tocopherol); 100 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 80 mg Vitamin B1 (3a821 Thiamine mononitrate); 240 mg Vitamin B2 (Riboflavin); 2,000 mg Vitamin B3 (3a315 Niacinamide); 600 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 200 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 1,200 mcg Vitamin B12 (Cyanocobalamin); 60 mg Vitamin B9 (3a316 Folic acid); 12,000 mg Vitamin B4 (3a890 Choline chloride); 6,000 mcg Vitamin H (3a880 Biotin)
Technological additives
Antioxidants: 200 mg Citric acid (E330); 66.7 mg B.H.T (E321); 66.7 mg Propyl gallate (E310)
Anti-caking agents: 70 mg Colloidal silica (E551b)
Zootechnical additives
Digestibility enhancers: 40,000 FYT 6-Phytase (4a18); 22,400 TXU Endo-1,4-β-xylanase (4a1602i); 10,000 TGU Endo-1,3(4)-β-glucanase (4a1602i)
Coccidiostats
2,400 mg Salinomycin sodium (51776)

Description:
Broilers have different feed requirements in terms of energy, proteins and minerals during different stages of their growth. It is important to adapt feed rations to these requirements for maximum production. Young broilers have a high protein requirement for the development of muscles, feathers, etc. As the broilers grow their energy requirements for the deposit of fat increase and their protein requirements decrease. DufaMix Broiler Grower has been formulated to complement corn and soybean meal based diets for optimal performance and to allow the bird to express its full meat yield potential. An anticoccidial and enzymes are included for improved feed conversion, digestion and the reduction of wet droppings.
**Inclusion rate:**
To be included in feed for approximately 12 to 28-day old broilers. The recommended inclusion rate for DufaMix Broiler Grower is 25 kg per tonne of feed.

**Storage conditions:**
Store dry, dark and below 25°C. Do not freeze.

**Packing:**
10 and 25 kg sacks.
**BROILER FINISHER**

**Analytical constituents:**
- 80.1% Crude ash
- 0.2% Crude fibre
- 13.5% Crude protein
- 0.05% Crude fat
- 16.9% Calcium
- 0.83% Magnesium
- 4.89% Sodium
- 1.8% Phosphorus
- 58.96 g/kg Lysine
- 86.10 g/kg Methionine
- 13.88 g/kg Threonine
- 0.01 g/kg Tryptophan

**Composition:**
Calcium carbonate, Monocalcium phosphate, Sodium bicarbonate, Sodium chloride.

**Additives (per kg)**
**Nutritional additives**
- Trace elements: 1,920 mg Fe (3b103 Iron(II)sulphate monohydrate); 64 mg I (3b202 Calcium iodate); 480 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 2,240 mg Mn (3b502 Manganese(II)oxide); 2,240 mg Zn (3b605 Zinc sulphate monohydrate); 8 mg Se (3b801 Sodium Selenite)
- Vitamins: 384,000 IU Vitamin A (3a672a Retinyl acetate); 96,000 IU Vitamin D3 (3a671); 1,280 mg Vitamin E (3a700 dl-tocopherol); 80 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 64 mg Vitamin B1 (3a821 Thiamine mononitrate); 192 mg Vitamin B2 (Riboflavin); 1,600 mg Vitamin B3 (3a315 Niacinamide); 480 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 160 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 960 mcg Vitamin B12 (Cynacobalamin); 48 mg Vitamin B9 (3a316 Folic acid); 9,600 mg Vitamin B4 (3a890 Choline chloride); 4,800 mcg Vitamin H (3a880 Biotin)

**Technological additives**
- Antioxidants: 160 mg Citric acid (E330); 53.3 mg B.H.T (E321); 53.3 mg Propyl gallate (E310).
- Anti-caking agents: 150 g Clinoptilolite of sedimentary origin (1m558i); 40 mg Colloidal silica (E551b)

**Zootechnical additives**
- Digestibility enhancers: 40,000 FYT 6-Phytase (4a18); 22,400 TXU Endo-1,4-β-xylanase (4a1602i); 10,000 TGU Endo-1,3(4)-β-glucanase (4a1602i)

**Description:**
Broilers have different feed requirements in terms of energy, proteins and minerals during different stages of their growth. It is important to adapt feed rations to these requirements for maximum production. As the broilers grow their energy requirements for the deposit of fat increase and their protein requirements decrease. Changes in body composition can be rapid during the finishing period and excessive fat deposition and loss of breast meat yield need to be carefully considered. DufaMix Broiler Finisher has been formulated to complement corn and soybean meal based diets for optimal performance and to allow the bird to express its full meat yield potential. Enzymes are included for improved feed conversion, digestion and the reduction of wet droppings.

**Inclusion rate:**
To be included in feed for broilers of approximately 28 days and older.
The recommended inclusion rate for DufaMix Broiler Finisher is 25 kg per tonne of feed.
Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
10 and 25 kg sacks.
REARING HENS

Analytical constituents:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Content</th>
<th>Constituent</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>70.9%</td>
<td>Calcium</td>
<td>83.2 g/kg</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.24%</td>
<td>Magnesium</td>
<td>65.8 g/kg</td>
</tr>
<tr>
<td>Crude protein</td>
<td>17.4%</td>
<td>Sodium</td>
<td>32.3 g/kg</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.00%</td>
<td>Phosphorus</td>
<td>0.00 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lysine</td>
<td>83.2 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methionine</td>
<td>65.8 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Threonine</td>
<td>32.3 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tryptophan</td>
<td>0.00 g/kg</td>
</tr>
</tbody>
</table>

Composition:
Calcium carbonate, monocalcium phosphate, sodium bicarbonate, sodium chloride, wheat feedflour.

Additives (per kg)
Nutritional additives
Trace elements: 2,400 mg Fe (3b103 Iron(II)sulphate monohydrate); 80 mg I (3b202 Calcium iodate anhydrous); 600 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 3,200 mg Mn (3b502 Manganese(II) oxide); 2,800 mg Zn (3b603 Zinc oxide); 12 mg Se (3b801 Sodium Selenite)
Vitamins: 400,000 IU Vitamin A (3a672a Retinyl acetate); 100,000 IU Vitamin D3 (3a671); 20,000 IU Vitamin D (3a670a 25-hydroxycholecalciferol); 1,600 mg Vitamin E (3a700 dl-tocopherol); 120 mg Vitamin K3 (3a711 Menadione nicotinamide bisulphite); 100 mg Vitamin B1 (3a821 Thiamine mononitrate); 200 mg Vitamin B2 (3a825 Riboflavin); 1,600 mg Vitamin B3 (3a315 Niacinamide); 600 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 200 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 1,200 mcg Vitamin B12 (Cynacobalamin); 40 mg Vitamin B9 (3a316 Folic acid); 12,000 mg Vitamin B4 (3a890 Choline chloride); 6,000 mcg Vitamin H (3a880 Biotin)

Zootechnical additives
Digestibility enhancers:
40,000 FYT 6-Phytase (4a18); 10,800 U Endo-1,4-β-xylanase (4a1602i); 3,200 U Endo-1,4-β-glucanase (4a1602i); 2,800 U Endo-1,3(4)-β-glucanase (4a1602i)

Technological additives
Antioxidants: 100 mg Clinoptilolite of sedimentary origin (1g568); 40 mg Citric acid (E330); 160.8 mg B.H.T (E321); 13.20 mg Propyl gallate (E310)
Anti-caking agents: 100 mg Colloidal silica

Description:
DufaMix Rearing Hens is a premixture containing a balanced blend of high potency vitamins, minerals and trace elements, promoting optimal performance. Enzymes are included for improved feed conversion, digestion and the reduction of wet droppings.

Inclusion rate:
To be included in feed for rearing hens.
The recommended inclusion rate for DufaMix Rearing Hens is 25 kg per tonne of feed.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.
Packing:
10 kg and 25 kg sacks.
Laying Hens

Corn-soybased diet

Analytical constituents:
75.6% .......... Crude ash 18.1 %.............. Calcium 0.93 g/kg ............ Lysine
1.63 % .......... Crude fibre 0.86 %.......... Magnesium 71.3 g/kg ........ Methionine
6.71 % ...... Crude protein 4.65 %.............. Sodium 0.77 g/kg ....... Threonine
0.60 % .......... Crude fat 5.24 % .......... Phosphorus 0.32 g/kg ...... Tryptophan

Composition:
Calcium carbonate, Monocalcium phosphate, Wheat middlings, Sodium chloride, Sodium bicarbonate.

Additives (per kg)
Nutritional additives
Trace elements: 2,400 mg Fe (3b103 Iron(II)sulphate monohydrate); 60 mg I (3b202 Calcium iodate); 600 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 3,200 mg Mn (3b502 Manganese(II)oxide); 2,800 mg Zn (3b605 Zinc sulphate monohydrate); 10 mg Se (3b801 Sodium Selenite)
Vitamins: 400,000 IU Vitamin A (3a672a Retinyl acetate); 100,000 IU Vitamin D3 (3a671); 800 mg Vitamin E (3a700 dl-tocopherol); 100 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 60 mg Vitamin B1 (3a821 Thiamine mononitrate); 200 mg Vitamin B2 (Riboflavin); 1,200 mg Vitamin B3 (3a315 Niacinamide); 600 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 200 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 1,000 mcg Vitamin B12 (Cynacobalamin); 30 mg Vitamin B9 (3a316 Folic acid); 12,000 mg Vitamin B4 (3a890 Choline chloride); 2,000 mcg Vitamin H (3a880 Biotin)
Technological additives
Antioxidants: 100 mg Citric acid (E330); 33.3 mg B.H.T (E321); 33.3 mg Propyl gallate (E310)
Anti-caking agents: 30 mg Colloidal silica (E551b)
Zootechnical additives
Digestibility enhancers: 20,000 FYT 6-Phytase (4a18)

Description:
DufaMix Laying Hens is a premixture containing a balanced blend of high potency vitamins, minerals and trace elements, promoting optimal performance and providing support in times of stress and disease challenges. Enzymes are included for improved feed conversion, digestion and the reduction of wet droppings. Optionally, carotenoids can be added to customer yolk fan colour specifications.

Inclusion rate:
To be included in feed for layers of all ages.
The recommended inclusion rate for DufaMix Laying Hens is 25 kg per tonne of feed.

Storage conditions: Store dry, dark and below 25°C. Do not freeze.

Packing: 10 and 25 kg sacks.
DUFA-DIGEST

Analytical constituents:
42.8% .......... Crude ash 6.7%.................. Calcium 0.95 g/kg ............ Lysine
3.35 % ...... Crude protein 1.4%.............. Magnesium 0.54 g/kg ........ Methionine
30.6 % ............ Crude fat 0.1%................ Sodium 0.98 g/kg .......... Threonine
0.39 % .......... Crude fibre 0.1% ............. Phosphorus 0.40 g/kg ...... Tryptophan

Composition:
Vegetable fats, wheat feed flour, calcium carbonate, wheat middlings, yeast

Additives (per kg)
Sensory additives
26 g Mixture of flavouring compounds (Thymol, Eugenol, Piperine)

Technological additives
Anti-caking agents: 125 g Colloidal silica (E551b)
Binders: 100 g Sepiolite (E562)

Description:
Medium chain fatty acids, thymol, eugenol and piperine are the main ingredients of Dufa-Digest. It will improve digestibility, feed intake and feed efficiency. Dufa-Digest contributes to a balanced intestinal microbiota. This product is heat stable and easy to use.

Directions for use:
2 -3 kg per tonne of feed.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
10 kg and 25 kg sacks.
DUFA-MULTIZYME

Analytical constituents:
84.2% .......... Crude ash 3.5% ............... Calcium 0.32 g/kg .......... Lysine
1.1% ........ Crude protein 0.3% .......... Magnesium 0.17 g/kg .......... Methionine
0.4% .......... Crude fat 3.6% ............... Sodium 0.33 g/kg .......... Threonine
0.8% .......... Crude fibre 0.0% ........... Phosphorus 0.14 g/kg .......... Tryptophan

Composition:
Wheat ground, calcium carbonate

Additives (per kg)
Zootechnical additives
Digestibility enhancers:
17,500 U Endo -1,3(4)-β-glucanase EC3.2.1.6 (4a1602i);
67,500 U Endo -1,4-beta-xylanase EC3.2.1.8 (4a1602i);
20,000 U Endo -1,4-β-glucanase EC3.2.1.4 (4a1602i);
12,500,000 LSU Muramidase EC3.2.1.7 (4d16)

Technological additives
Binders: 700.95 g Clinoptilolite of sedimentary origin (1g568)

Description:
An unique combination of nsp enzymes and a new developed enzym: Muramidase. NSP enyzmes for optimal digestion of cereals and muramidase for breaking off peptidoglycans that are the main part of the cell wall of bacteria. Dufa-Multizyme will improve animal performance and the feed conversion ratio. It's heat stable, dust-free and has an excellent flowability.

Directions for use:
2 kg per tonne of feed.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
10 kg and 25 kg sacks.
**ACID-PERFORMANCE**

**Analytical constituents:**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Percentage</th>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>61.4%</td>
<td>Calcium</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.0%</td>
<td>Magnesium</td>
<td>0.01%</td>
</tr>
<tr>
<td>Crude protein</td>
<td>0.0%</td>
<td>Sodium</td>
<td>0.06%</td>
</tr>
<tr>
<td>Crude fat</td>
<td>0.0%</td>
<td>Phosphorus</td>
<td>0.0%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lysine</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methionine</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Threonine</td>
<td>0.0 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tryptophan</td>
<td>0.0 g/kg</td>
</tr>
</tbody>
</table>

**Composition:**

**Additives (per kg)**

**Technological additives**

- Binders: 365 g Clinoptilolite of sedimentary origin (1g568)
- Preservatives: 425 g Calcium formiate (E238); 125 g Calcium propionate (E282); 50 g Fumaric acid (1a297); 25 g Calcium lactate (E327)
- Anti-caking agent: 10 g Colloidal silica (E551b)

**Description:**

DufaMix Acid-Performance is designed to help safeguard your animals against the detrimental effects of microbes, while at the same time increasing feed conversion. DufaMix Acid-Performance contains a selection of highly active organic acids and their salts. The special formulation adjusts the pH value of the digestive tract to increase the activity of gastrointestinal enzymes and reduce the numbers of potentially harmful bacteria e.g., *E. coli* and *Salmonella* spp. The result is increased weight gains, enhanced stress response and improved immunity.

**Inclusion rates:**

- Swine < 25 kg body weight .......... 3 – 8 kg per tonne in the final feed
- Swine ≥ 25 kg body weight.......... 2 – 4 kg per tonne in the final feed
- Sows........................................... 3 kg per tonne in the final feed
- Broilers, layers & turkeys .......... 0.5 - 2 kg per tonne in the final feed

**Storage conditions:**

Store dark and dry below 25°C. Do not freeze.

**Packing:**

25 kg sacks.
**ACID-PLUS**

**Analytical constituents:**
- 78.7% .......... Crude ash
- 0.0 % .......... Crude fibre
- 0.0 % ...... Crude protein
- 6.3 % ............. Crude fat
- 15.0 %............. Calcium
- 0.28 %......... Magnesium
- 0.09 % ........ Sodium
- 0.0 % .......... Phosphorus
- 0.0 g/kg ........... Lysine
- 0.0 g/kg .......... Methionine
- 0.0 g/kg ........... Threonine
- 0.0 g/kg ......... Tryptophan

**Composition:**
Calcium carbonate, Calcium butyrate, Palm oil, Wheat flour, Vegetable fats.

**Additives (per kg)**

**Technological additives**
- Binders: 488 g Clinoptilolite of sedimentary origin (1g568)
- Preservatives: 175 g Calcium formiate (E238)
- Anti-caking agent: 17.6 g Colloidal silica (E551b)

**Sensory additives**
- 14.2 g Mixture of flavouring compounds (oregano & butygan)

**Description:**
A product for poultry that will increase feed intake, has antibacterial and antimicrobial properties, stimulate enzyme production and secretion and has a positive effect on immunity: DufaMix Acid – Plus. DufaMix Acid-Plus is a combination of calcium butyrate, calcium formiate, oils, oregano and medium chain fatty acids. For optimal binding DufaMix Acid-Plus include also clinoptilolite of sedimentary origin.

**Directions for use:**
This premixture may be incorporated in feed for poultry at different stages of production.
- Inclusion rates broilers:
  - Starter: 5 kg per tonne of feed.
  - Grower: 3 - 4 kg per tonne of feed.
  - Finisher: 2.5 kg per tonne of feed.

**Storage conditions:**
Store dark and dry below 25°C. Do not freeze.

**Packing:**
25 kg sacks.
TOX-BIND

Analytical constituents:

- 46.5 % Crude ash
- 15.9 % Crude protein
- 2.7 % Crude fat
- 4.3 % Crude fibre
- 0.20 % Calcium
- 0.10 % Magnesium
- 0.10 % Sodium
- 0.50 % Phosphorus
- 9.6 g/kg Lysine
- 3.2 g/kg Methionine
- 7.9 g/kg Threonine
- 1.8 g/kg Tryptophan

Composition:
Brewers grains, brewer yeast, yeast.

Additives (per kg):
Technological additives:
Binder: 462.5 g Bentonite-montmorillonite (1m558i)
Anti-caking agent: 0.25 g Colloidal silica (E551b)

Description:
DufaMix Tox-Bind is composed of Bentonite-montmorillonite clay, selected yeast cultures and yeast cell extract and is designed to powerfully combat mycotoxins. DufaMix Tox-Bind is stable over a wide pH range, which is essential for the absorption of Zearalenon (ZEA) and is not affected by processing. DufaMix Tox-Bind possesses the ability to tightly bind and immobilize toxins in the gastrointestinal tract with negligible effects on micronutrient uptake.

Directions for use:
DufaMix Tox-Bind is a premixture suitable for incorporation in feed for all species and categories of animals.

The advised rate of inclusion is 1 – 2.5 kg of DufaMix Tox-Bind per tonne in the final feed. This inclusion rate may be adjusted in order to account for seasonal variations in raw feed materials and toxin levels.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
25 kg sacks.
TOX-BIND ADVANCED

Analytical constituents:

- 66.5% .......... Crude ash
- 7.4 % .......... Crude protein
- 1.6 % .......... Crude fat
- 1.2 % .......... Crude fibre
- 0.50 % .......... Calcium
- 0.60 % .......... Magnesium
- 0.50 % .......... Sodium
- 0.20 % .......... Phosphorus
- 4.7 g/kg .......... Lysine
- 1.4 g/kg .......... Methionine
- 3.8 g/kg .......... Threonine
- 0.8 g/kg .......... Tryptophan

Composition:
Brewer yeast, yeast, brewers grains.

Additives (per kg):
Technological additives:
- Binder: 582.3 g Bentonite-montmorillonite (1m558i)
- Anti-caking agent: 3.5 g Colloidal silica (E551b)
Sensory additives
- 15 g Mixture of flavouring compounds (silymarin extract)

Description:
DufaMix Tox-Bind Advanced contains yeast cultures, yeast cell extract, bentonite-montmorillonite, a mixture of flavouring compounds and Silymarin extract. It's a composition that will effectively absorb a wide range of harmful mycotoxins, e.g., aflatoxins, ochratoxins, trichothecenes, deoxynivalenol and zearalenon. Silymarin, a standard plant extract with strong antioxidant activity is an effective agent for liver protection and liver regeneration.

Directions for use:
DufaMix Tox-Bind Advanced is a premixture suitable for incorporation in feed for all species and categories of animals.

The advised rate of inclusion is 1 – 2.5 kg of DufaMix Tox-Bind per tonne in the final feed. This inclusion rate may be adjusted in order to account for seasonal variations in raw feed materials and toxin levels.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
25 kg sacks.
BROILER-5 CONCENTRATE

Analytical constituents:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Analysis</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude ash</td>
<td>29.1 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude fibre</td>
<td>2.6 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude protein</td>
<td>37 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude fat</td>
<td>5.0 %</td>
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<td></td>
</tr>
<tr>
<td>Calcium</td>
<td>5.2 %</td>
<td>Calcium</td>
<td>42 g/kg</td>
</tr>
<tr>
<td>Sodium</td>
<td>3.0 %</td>
<td>Sodium</td>
<td>37 g/kg</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>2.7 %</td>
<td>Phosphorus</td>
<td>17 g/kg</td>
</tr>
<tr>
<td>Lysine</td>
<td>17 g/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methionine</td>
<td>37 g/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Threonine</td>
<td>17 g/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tryptophan</td>
<td>3.4 g/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Composition:
Soybeans heat treated (produced from GM soya); Mono calciumphosphate; Calcium carbonate; Sodium chloride; Soybean oil (produced from GM soya); Wheat feed; Fatty acids; Sodium bicarbonate; Vinasses.

Additives (per kg)

Nutritional additives
Trace elements: 800 mg Fe (3b103 Iron(II)sulphate monohydrate); 300 mg Cu (3b405 Cupric sulphate-pentahydrate); 20 mg I (3b202 Calcium iodate, anhydrous); 1,400 mg Mn (3b502 Manganese(II)oxide); 1,600 mg Zn (3b605 Zinc sulphate, monohydrate); 6 mg Se (3b801 Sodium Selenite)
Vitamins: 200,000 IU Vitamin A (3a672a Retinyl acetate); 60,000 IU Vitamin D3 (3a671); 500 mg Vitamin E (3a700 all-rac-alpha-tocopheryl acetate).

Zootechnical additives
Digestibility enhancers: 5025 OTU 6-Phytase (EC3.1.3.26) (4a16)

Description:
Concentrate for broilers. Includes all the essential vitamins and minerals.

Inclusion rates:
The advised inclusion rate is 50 kg per tonne of feed.

Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
50 kg sacks.
**LAYER-5 CONCENTRATE**

**Analytical constituents:**
- Crude ash: 36.4%
- Crude fibre: 2.7%
- Crude protein: 30.6%
- Crude fat: 2.3%
- Calcium: 9.5%
- Sodium: 1.7%
- Phosphorus: 2.5%
- Lysine: 34 g/kg
- Methionine: 17 g/kg
- Threonine: 22 g/kg
- Tryptophan: 7 g/kg

**Composition:**
Soybeans heat treated (produced from GM soya); Calcium carbonate; Mono calciumphosphate; Sodium chloride; Wheat feed; Soybean oil (produced from GM soya); Fatty acids; Sodium bicarbonate.

**Additives (per kg)**

**Nutritional additives**
- Trace elements: 800 mg Fe (3b103 Iron(II)sulphate monohydrate); 300 mg Cu (3b405 Cupric sulphate-pentahydrate); 20 mg I (3b202 Calcium iodate, anhydrous); 1,400 mg Mn (3b502 Manganese(II)oxide); 1,100 mg Zn (3b605 Zinc sulphate, monohydrate); 4 mg Se (3b801 Sodium Selenite)
- Vitamins: 200,000 IU Vitamin A (3a672a Retinyl acetate); 60,000 IU Vitamin D3 (3a671); 301 mg Vitamin E (3a700 all-rac-alpha-tocopheryl acetate).

**Zootechnical additives**
- Digestibility enhancers: 5025 OTU 6-Phytase (EC3.1.3.26) (4a16); 47,839 U Endo-1,4-β-xylanase (4a11).

**Description:**
Concentrate for layers. Includes all the essential vitamins and minerals.

**Inclusion rates:**
The advised inclusion rate is 50 kg per tonne of feed.

**Storage conditions:**
Store dry, dark and below 25°C. Do not freeze.

**Packing:**
50 kg sacks.
CALF MILK-REP

Analytical constituents:
20 % Crude protein 0.8 % Calcium 17 g/kg Lysine
16 % Crude fat 0.2 % Magnesium 3 g/kg Methionine
0.5 % Crude fibre 0.6 % Sodium 3 g/kg Tryptophan
9.5 % Crude ash 0.6 % Phosphorus 9 g/kg Threonine

Composition:
Whey powder, Soya protein (produced from GM soya), vegetable oils (palm, coconut), delactosed wheypowder, hydrolysed wheat protein, glucose.

Additives (per kg)
Nutritional additives
Trace elements: 80 mg Fe (3b103Iron(II)sulphate monohydrate); 0.8 mg I (3b202 Calcium iodate anhydrous); 7 mg Cu (3b405 Cupric sulphate-pentahydrate); 44 mg Mn (3b503 Manganous sulphate monohydrate); 56 mg Zn (3b605 Zinc sulphate monohydrate); 0.2 mg Se (3b801 Sodium selenite)
Vitamins: 25,000 IU Vitamin A (3a672a Retinyl acetate); 4,000 IU Vitamin D3 (3a671); 80 mg Vitamin E (3a700 dl-tocopherol); 1.6 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 2.4 mg Vitamin B1 (3a821 Thiamine mononitrate); 3.2 mg Vitamin B2 (Riboflavin); 24 mg Vitamin B3 (3a315 Niacinamide); 12 mg Vitamin B5 (3a841 Calcium-d-pantothenate); 24 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 40 mcg Vitamin B12 (Cyanocobalamin); 80 mg Vitamin C (3a311 Sodium ascorbyl phosphate); 200 mg Vitamin B4 (3a890 Choline chloride); 0.4 mg Vitamin B9 (3a316 Folic acid)
Technological additives
19 mg B.H.A. (E320 Butylated hydroxyanisole), 19 mg B.H.T. (E321 Butylated hydroxytoluene)
Sensory additives
0.3 g Aroma

Description:
DuFaMix Calf Milk-Rep is a high-quality and easy to-mix milk replacer for young calves, designed to provide an ideal ratio of protein to energy and minimise the risk of malabsorption. Calf Milk-Rep will prevent the transmission of disease from cow to calf through unpasteurized milk thus improving biosecurity, as well as stimulating calf growth and performance equal to or even greater than that attainable on whole milk.

Instructions for use:
This milk-replacer may only be fed to growing non-ruminating calves after colostrum uptake is complete. Make sure all utensils are clean before use. Measure the required quantity of Calf Milk-Rep (125 g per litre) and add half the required volume of warm water (40ºC); stir gently until fully
dissolved. Then add the remaining quantity of water (warm or cold) to required volume and stir to ensure a homogenous mix. Feed at 36°C - 40 °C (body temperature). Fresh water must always be available. Mix only enough solution for one feeding at a time.

**Storage conditions:**
Store dark and dry below 25°C. Do not freeze.

**Packing:**
25 kg sacks.
PIGLET MILK-REP

Analytical constituents:
18.5% .......... Crude protein 0.6 %.................. Calcium 16 g/kg ............... Lysine
15% ................. Crude fat 0.9 %............. Magnesium 6 g/kg ........... Methionine
6% ................. Crude ash 0.4 %............... Sodium 12 g/kg ........ Threonine
0.4% ............ Crude fibre 0.4 %........... Phosphorus 2 g/kg .......... Tryptophan

Composition:
Whey powder, vegetable oils (palm, coconut), Pregel wheat, Dextrose, Soya protein concentrate (produced from GM soya), Wheat gluten hydrolysed.

Additives (per kg)
Nutritional additives
Trace elements: 100 mg Fe (3b103 Iron(ll)sulphate monohydrate); 1 mg J (3b202 Calcium iodate anhydrous); 8 mg Cu (3b405 Cupric (II)sulphate-pentahydrate); 55 mg Mn (3b503 Manganous sulphate monohydrate); 70 mg Zn (3b605 Zinc sulphate monohydrate); 0.25 mg Se (3b801 Sodium selenite)
Vitamins: 25,000 IU Vitamin A (3a672a Retinyl acetate); 5,000 IU Vitamin D3 (3a671); 100 mg Vitamin E (3a700 dl-tocopherol); 3 mg Vitamin K3 (3a710 Menadione sodium bisulphite); 7 mg Vitamin B1 (3a821 Thiamine mononitrate); 7 mg Vitamin B2 (Riboflavin); 33.8 mg Vitamin B3 (3a315 Niacinamide); 15 mg Vitamin B5 (3a841Calcium-d-pantothenate); 7 mg Vitamin B6 (3a831 Pyridoxine hydrochloride); 0.05 mg Vitamin B12 (Cyanocobalamin); 100 mg Vitamin C (3a311 Sodium ascorbyl phosphate); 250 mg Vitamin B4 (3a890 Choline chloride); 0.5 mg Vitamin B9 (3a316 Folic acid).
Technological additives
Acidifiers: 3 g Citric acid (E330)
Sensory additives
0.3 g Aroma
Zootechnical additives
Gut flora stabiliser: 1280 MCFU Bacillus licheniformis (DSM 5749) & Bacillus subtilis (DSM 5750) (1:1) (E1700).

Description:
DufoaMix Piglet Milk-Rep is specially formulated to supplement or replace the nutrition of suckling Swine of all breeds. By providing milk proteins, minerals, trace elements and vitamins in a highly palatable liquid form, early consumption is encouraged, mortality can be reduced and rapid gains can be achieved. Providing Piglet Milk-Rep as soon as colostrum feeding has ended ensures all piglets have access to adequate amounts of milk. This offers weaker piglets a chance to catch up resulting in more uniform litter sizes. Owing to its excellent flow-characteristics Piglet Milk-Rep is ideal for use with automatic feeding systems and brings you the opportunity to enhance litter performance ultimately resulting in higher weaning weights and accelerated growth.
Instructions for use:
This feed may only be fed to growing piglets up to 3 weeks of age. Make sure all utensils are clean before use. Measure the required quantity of Piglet Milk-Rep (150 g per litre) and add half the required volume of warm water (40°C); stir gently until fully dissolved. Then add the remaining quantity of water (warm or cold) to required volume and stir to ensure a homogenous mix. Feed at 40°C (body temperature). Fresh water must always be available. Mix only enough solution for one feeding at a time.

Storage conditions:
Store dark and dry below 25°C. Do not freeze.

Packing:
25kg sacks.
**DUFALAC-PRO 20/20/35**

**Analytical constituents:**
- 20% ............... Crude protein
- 20% .................. Crude fat
- 7.5% .................. Crude ash
- 1.1% ............... Crude fibre
- 0.2 %.................... Sodium
- 35% ....................... Lactose
- 13.5 g/kg .............. Lysine
- 3.6 g/kg .......... Methionine
- 13.5 g/kg .............. Lysine
- 3.6 g/kg .......... Methionine

**Composition:**
Whey powder, vegetable oils (palm, coconut), Oil seeds and products derived thereof, Wheat gluten.

**Description:**
Dufalac-pro 20/20/35 is a complementary milk-replacer feed for piglets. It's a skimmed milkpowder replacer for application in animal feed with a high lactose and energy content. Highly concentrated in protein and necessary amino acids. It will stimulate feed intake and due to the high lactose content it will lowers pH in the stomach and stabilizes the gut environment.

**Instructions for use:**
Complementary milk-replacer feed to be used for pigs till an age of six months.

Replacer for skimmed milkpowder at following inclusion rates:
Feed for pigs: up to 25%

**Storage conditions:**
Store dark and dry below 25°C. Do not freeze.

**Packing:**
25 kg sacks.
BROILER POWERSTART

Analytical constituents:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Percentage</th>
<th>Analytical Value</th>
<th>Constituent</th>
<th>Percentage</th>
<th>Analytical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude protein</td>
<td>22.5%</td>
<td>9.0 g/kg</td>
<td>Calcium</td>
<td>14.0 g/kg</td>
<td>Lysine</td>
</tr>
<tr>
<td>Crude fat</td>
<td>6.5%</td>
<td>1.5 g/kg</td>
<td>Sodium</td>
<td>6.5 g/kg</td>
<td>Methionine</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>3.0%</td>
<td>5.5 g/kg</td>
<td>Phosphorus</td>
<td>2.7 g/kg</td>
<td>Tryptophan</td>
</tr>
<tr>
<td>Crude ash</td>
<td>5.6%</td>
<td></td>
<td></td>
<td>9.5 g/kg</td>
<td>Threonine</td>
</tr>
</tbody>
</table>

Composition (per kg):
Maize; Soybeans heat treated (produced from GM soya); Wheat; Wheat feed; Fish meal; Oats; Sunflower seed oil and fat; Calcium carbonate; Soybean oil (produced from GM soya); Fatty acids; Monocalcium phosphate; Sodium chloride; Sodium bicarbonate.

Additives (per kg)

Nutritional additives
Trace elements: 77 mg Fe (3b103 Iron(II)sulphate monohydrate); 15 mg Cu (3b405 Cupric(II) sulphate-pentahydrate); 101 mg Mn (3b502 Manganese(II)oxide); 80 mg Zn (3b605 Zinc sulphate monohydrate); 0.3 mg Se (3b801 Sodium selenite); 1 mg I (3b202 Calcium iodide)
Vitamins: 13,568 IU Vitamin A (3a672a Retinyl acetate); 3,719 IU Vitamin D3 (3a671); 91 mg Vitamin E (3a700 all-rac-alpha-tocopheryl acetate).

Zootechnical additives
Digestibility enhancers: 1005 FTU 6-Phytase (EC3.1.3.26) (4a19); 2412 U Endo-1,4-β-xylanase (EC3.2.1.8) (4a11)
Coccidiostatics: 60 mg Salinomycin sodium (51776)

Description:
DufaFeed Broiler Prestarter is a fortified pelleted compound feed supplying extra energy, minerals, vitamins, and most importantly certain additives for enhanced gastrointestinal health. Early nutrition plays a vital role in early life and productivity of broilers. In first week of life maximum growth (approximately 20% of total) occurs. A strong positive correlation exists between first week live weight and finishing weight at the end of production cycle. DufaFeed Broiler Prestarter has been formulated to benefit broilers in terms of reduced mortality and enhanced growth. An anti-coccidial, as well as enzymes and non-antibiotic growth enhancers are included for improved feed conversion, digestion and the reduction of wet droppings.

Instructions for use:
Feed free choice to chicks up to approximately 5 days of age. Minimum 100 g per bird.

Storage conditions: Store dry, dark and below 25°C. Do not freeze.

Packing: 25 kg sacks.
PIGLET POWERSTART 1

Analytical constituents:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude protein</td>
<td>17.7%</td>
</tr>
<tr>
<td>Crude fat</td>
<td>18.9%</td>
</tr>
<tr>
<td>Crude fibre</td>
<td>0.3%</td>
</tr>
<tr>
<td>Crude ash</td>
<td>5.1%</td>
</tr>
<tr>
<td>Calcium</td>
<td>6.2 g/kg</td>
</tr>
<tr>
<td>Magnesium</td>
<td>1.0 g/kg</td>
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<tr>
<td>Sodium</td>
<td>2.8 g/kg</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>4.8 g/kg</td>
</tr>
<tr>
<td>Lysine</td>
<td>13.8 g/kg</td>
</tr>
<tr>
<td>Methionine</td>
<td>4.6 g/kg</td>
</tr>
<tr>
<td>Tryptophan</td>
<td>2.8 g/kg</td>
</tr>
<tr>
<td>Threonine</td>
<td>9.0 g/kg</td>
</tr>
</tbody>
</table>

Composition:

Rice flour; Whey powder; Wheat feed; Cocos oil; Soy protein concentrate (produced from GM soy); Soybean oil (produced from GM soy); Whey protein; Dextrose; Whey permeate powder; Blood products.

Additives (per kg)

Nutritional additives
Trace elements: 70 mg Fe (3b103 Iron(II)sulphate monohydrate); 30 mg Fe (3b106 Iron (II) chelate of amino acids); 135 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 60 mg Mn (3b503 Manganese(II)sulphate monohydrate); 125 mg Zn (3b603 Zinc oxide); 0.3 mg Se (3b801 Sodium selenite); 0.1 mg Se (3b8.10 Organic form of Selenium produced by Saccharomyces cerevisiae CNCM I3060); 4 mg I (3b202 Calcium iodate, anhydrous)
Vitamins: 25,000 IU Vitamin A (3a672a Retinyl acetate); 2,000 IU Vitamin D (3a670a 25-hydroxy cholecalciferol); 150 mg Vitamin E (3a700 all-rac-alpha-tocopheryl acetate);
Zootechnical additives
Digestibility enhancers: 1,28 MCFU Bacillus licheniformis (DSM 5749) & Bacillus subtilus (DSM 5750) 1:1 (4b1700i).
Sensory additives
155 mg Sodium saccharin (E954(iii))
Technological additives
Antioxidants: 125 mg B.H.T (E321)

Directions for use:
Piglet Powerstart 1 is a milk-product to provide as complement to sow milk. Product that will learn piglets to eat and provides a higher change of survival. Feeding this product will support growth, better digestion and helps for a better weaning period. Can be provided as dry feed and liquid feed. As liquid feed; 250g / litre of water. Mix short before dosing and provide fresh. Feed at 40ºC (body temperature). Feed till max. 7 days before weaning.

Storage conditions:
Store dry, dark and below 25ºC. Do not freeze.

Packing:
20 kg sacks.
PIGLET POWERSTART 2

Analytical constituents:
18% Crude protein.............. 4.5 g/kg Calcium.............. 12.6 g/kg Lysine
10.1% Crude fat............... 1.5 g/kg Magnesium......... 4.4 g/kg Methionine
2% Crude fibre............... 2.9 g/kg Sodium........... 2.9 g/kg Tryptophan
4.3% Crude ash............... 4.8 g/kg Phosphorus....... 8.2 g/kg Threonine

Composition:
Maize; Grain flour; Soy protein concentrate (produced from GM soy); Whey powder; Oat flakes; Rice flour; Soybeans heat treated (produced from GM soya); Sucrose; Soybean oil (produced from GM soy); Copra oil; Whey protein; Whey permeate powder; Vital wheat gluten; Glycerine, Monocalcium phosphate; Palm kernel oil; Fish oil; Wheat middling; Wheat feed; Sodium chloride.

Additives (per kg)
Nutritional additives
Trace elements: 100 mg Fe (3b103 Iron(II)sulphate monohydrate); 135 mg Cu (3b405 Cupric(II)sulphate-pentahydrate); 40 mg Mn (3b502 Manganous(II)oxide); 110 mg Zn (3b605 Zinc sulphate monohydrate); 0.2 mg Se (3b801 Sodium selenite); 0.2 mg Se (L-selenomethionine (3b815); 1mg I (3b202 Calcium iodate, anhydrous)
Vitamins: 16,000 IU Vitamin A (3a672a Retinyl acetate); 1,000 IU Vitamin D3 (3a671); 1,000 IU Vitamin D (3a670a 25-hydroxy cholecalciferol); 150 mg Vitamin E (3a700 all-rac-alpha-tocopheryl acetate)
Zootechnical additives
Digestibility enhancers: 4000 FYT 6-Phytase (EC3.1.3.26) (4a18); 500 TGU Endo-1,4 beta-glucanase (EC3.2.1.4) (4a7); 1,120 TXU Endo-1,4-beta-xylanase (EC3.2.1.8) (4a7);1,28 MCFU Bacillus licheniformis (DSM 5749) & Bacillus subtilus (DSM 5750) 1:1 (4b1700i); 1 1E9 CFU Saccharomyces cerevisiae CNCM I-1079 (4d1703)
Sensory additives
75 mg Sodium saccharin (E954(iii))
Technological additives
Antioxidants: 104 mg B.H.T (E321); 350 mg Sepiolite (E562)

Directions for use:
Piglet Powerstart 2 is a prestarter crumble that can be provided as dry feed and liquid feed. It will stimulate feed intake and is very tasteful. It will learn piglets to eat, to digest and to drink water. At the end it will support additional growth and increase weaning weight. The advising mixing ratio is 500g per 1 litre of water. Feed at 40ºC (body temperature). Provide twice a day fresh. Mix only enough solution for one feeding at a time.

Warnings:
Not for use after 12 weeks of age.
Simultaneous use with water for drinking which choline chloride has been added should be avoided.
Storage conditions:
Store dry, dark and below 25°C. Do not freeze.

Packing:
20 kg sacks.
**PIGLET POWERSTART 3**

**Analytical constituents:**

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<th>Constituent</th>
<th>Value (g/kg)</th>
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</thead>
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</tr>
<tr>
<td>Crude fat</td>
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<tr>
<td>Phosphorus</td>
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<tr>
<td>Lysine</td>
<td>12.2</td>
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<tr>
<td>Methionine</td>
<td>4.3</td>
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<tr>
<td>Tryptophan</td>
<td>2.8</td>
</tr>
<tr>
<td>Threonine</td>
<td>8.0</td>
</tr>
</tbody>
</table>

**Composition:**

Wheat; Grain flour; Oat flakes; Barley; Whey powder; Maize; Soybeans heat treated (produced from GM soya); Rice flour; Soy protein concentrate (produced from GM soy); Wheat bran; Sucrose; Palm kernel oil; Soybean oil (produced from GM soy); Vital wheat gluten; Glycerine, Monocalcium phosphate; Fish oil; Sodium chloride; Wheat middling; Wheat feed; Sodium salts of organic acids.

**Additives (per kg)**

**Nutritional additives**

Trace elements: 100 mg Fe (3b103 Iron(II)sulphate monohydrate); 135 mg Cu (3b405Cupric(II)sulphate-pentahydrate); 40 mg Mn (3b502 Manganous(II)oxide); 110 mg Zn (3b605 Zinc sulphate monohydrate); 0.2 mg Se (3b801 Sodium selenite); 0.2 mg Se (L-selenomethionine (3b815)); 1mg I (3b202 Calcium iodate, anhydrous)

Vitamins: 16,000 IU Vitamin A (3a672a Retinyl acetate); 1,000 IU Vitamin D3 (3a671); 1,000 IU Vitamin D (3a670a 25-hydroxy cholecalciferol); 150 mg Vitamin E (3a700 all-rac-alpha-tocopheryl acetate)

**Zootechnical additives**

Digestibility enhancers: 4000 FYT 6-Phytase (EC3.1.3.26) (4a18); 500 TGU Endo-1,4 beta-glucanase (EC3.2.1.4) (4a7); 1,120 TXU Endo-1,4-beta-xylanase (EC3.2.1.8) (4a7);1,28 MCFU Bacillus licheniformis (DSM 5749) & Bacillus subtilus (DSM 5750) 1:1 (4b1700i); 1 1E9 CFU Saccharomyces cerevisiae CNCM I-1079 (4d1703)

**Sensory additives**

75 mg Sodium saccharin (E954(iii))

**Technological additives**

Antioxidants: 100 mg B.H.T (E321); 350 mg Sepiolite (E562)

**Directions for use:**

Piglet Powerstart 3 is a 2 mm pellet. It will increase feed intake and stimulates growth. Optimal feed during and after weaning. Provide fresh feed and take care of enough water available for the piglet. Feeding after weaning is possible until an intake of 250 g/piglet/day or max. 4 weeks after weaning.

**Warnings:**

Simultaneous use with water for drinking which choline chloride has been added should be avoided.

**Storage conditions:**

Store dry, dark and below 25°C. Do not freeze.

**Packing:**

20 kg sacks.
**BEEF CATTLE DELI-LICK**

**Analytical constituents:**
11.5 % ......................... Calcium
5 % .......................... Magnesium
14 % ............................ Sodium
3 % ......................... Phosphorous

**Composition:**
Sodium chloride, Calcium carbonate, Molasses, Mono calcium phosphate, Magnesium oxide, Dicalcium phosphate.

**Additives (per kg)**

**Nutritional additives**
Trace elements:
250 mg I (3b202 Calcium Iodide);
90 mg Co (3b304 Coated granulated cobalt (II) carbonate);
1,750 mg Cu (3b405 Cupric(II)sulphate-pentahydrate);
8,600 mg Mn (3b502 Manganous (II) oxide);
11,500 mg Zn (3b603 Zinc oxide);
40 mg Se (3b801 Sodium Selenite)

**Description:**
DufaFeed Beef Cattle Deli-Lick is an easy to use, weather resistant lick-bucket containing all minerals, additionally need by and specially formulated for the beef cattle. It has an optimal balance between calcium and phosphorous and is an optimal oxidant. No synthetic vitamins included. Beef Cattle Del-Lick improves the immunity of the animal.

**Directions for use:**
Place the bucket at a solid place, free available for the beef cattle.
Guideline: 1 bucket per 10 beef cattle per month. 75 -200 g per animal per day.

**Warnings:**
This product contains copper at levels that may be toxic for sheep!

**Packing:**
25 kg bucket.
CAMEL DELI-LICK

Analytical constituents:
83.6 % .................................. Crude ash  11.4 % .................................. Calcium
0.6 % .................................. Crude protein  7.1 % .................................. Magnesium
0.0 % .................................. Crude fibre  13.8 % .................................. Sodium
0.0 % .................................. Crude fat  3 % .................................. Phosphorus

Composition:
Sodium chloride, Calcium carbonate, Molasses, Magnesium oxide, Dicalcium phosphate.

Additives (per kg):
Nutritional additives:
Trace elements:
100 mg I (3b202 Calcium Iodide);
40 mg Co (3b304 Coated granulated cobalt (II) carbonate);
1,000 mg Cu (3b405 Cupric(II)sulphate-pentahydrate);
4,000 mg Mn (3b502 Manganese(II)oxide);
6,000 mg Zn (3b603 Zinc oxide);
30 mg Se (3b801 Sodium Selenite)
Vitamins:
50,000 IU Vitamin A (3a672a Retinyl acetate);
5,000 IU Vitamin D3 (3a671);
100 mg Vitamin E (3a700 dl-tocopherol)

Description:
DufaFeed Camel Deli-Lick is an easy to use bucket specially for camels. The composition is based on their requirements. Essential minerals, vitamins and trace elements for camels are included. It can improves the health of the camel.
Directions for use:
Place the bucket free available for the camel.
75 – 125 g per animal per day.

Warnings:
This product contains copper at levels that may be toxic to sheep!

Packing:
25 kg bucket.
DAIRY COW DELI-LICK

Analytical constituents:
59.3 % ......................... Crude ash 
2.4 % ......................... Crude protein 
0.0 % ......................... Crude fibre 
0.2 % ......................... Crude fat 
9.2 % .............................. Calcium 
5.6 % ............................. Magnesium 
6.5 % ............................. Sodium 
2 % .............................. Phosphorous

Composition:
Molasses, Sodium chloride, Calcium carbonate, Magnesium phosphate, Magnesium oxide, Mono calcium phosphate, Calcium hydroxide, Calcium oxide.

Additives (per kg):
Nutritional additives:
Trace elements:
100 mg I (3b202 Calcium Iodide);
40 mg Co (3b304 Coated granulated cobalt (II) carbonate);
1,000 mg Cu (3b405 Cupric(II)sulphate-pentahydrate);
2,500 mg Mn (3b502 Manganese(II)oxide);
5,000 mg Zn (3b603 Zinc oxide);
1,000 mg Zn (3b605 Zinc chelate of amino acids hydrate);
15 mg Se (3b801 Sodium Selenite).
Vitamins:
600,000 IU Vitamin A (3a672a Retinyl acetate);
120,000 IU Vitamin D3 (3a671);
2,250 mg Vitamin E (3a700 dl-tocopherol)
*Contains 750 mg extra vitamin E equivalents from natural antioxidants.

Description:
Each roughage diet has a shortage of minerals, vitamins and trace elements. To cover this shortage and help the dairy cow with optimal production it’s necessary to provide. DufaFeed Dairy Cow Deli-Lick is a very suitable bucket.

Directions for use:
Place the bucket at a solid place, free available for the cow.
75 – 200 g per animal per day.

Warnings:
This product contains copper at levels that may be toxic to sheep!

Packing:
22 kg bucket.
GOAT DELI-LICK

Analytical constituents:
85.2 % .........................Crude ash
0.6 % ..........................Crude protein
0.0 % ..........................Crude fibre
0.0 % ..............................Crude fat
10 % ................................Calcium
6 % ..............................Magnesium
15 % .................................Sodium
3 % ............................Phosphorous

Composition:
Sodium chloride, Calcium carbonate, Molasses, Mono calcium phosphate, Magnesium oxide.

Additives (per kg):
Nutritional additives:
Trace elements:
50 mg I (3b202 Calcium Iodide);
25 mg Co (3b304 Coated granulated cobalt (II) carbonate);
750 mg Cu (3b405 Cupric(II)sulphate-pentahydrate);
1,500 mg Mn (3b503 Manganous sulphate monohydrate);
3,000 mg Zn (3b605 Zinc sulphate);
40 mg Se (3b801 Sodium Selenite)
Vitamins:
100,000 IU Vitamin A (3a672a Retinyl acetate);
20,000 IU Vitamin D3 (3a671);
250 mg Vitamin E (3a700 dl-tocopherol)

Description:
The weather resistant bucket specially designed for goats. The goat as a typical browser needs some extra minerals, vitamins and trace elements for an optimal health status. The DufaFeed Goat Deli-Lick bucket include copper to avoid shortage.

Directions for use:
1 bucket per 10 goats. 25 - 50 g per goat per day. Place the bucket at a solid place, free available for the goat.

Warnings:
This product contains copper at levels that may be toxic to sheep!

Packing:
15 kg bucket.
HORSE DELI-LICK

Analytical constituents:
55%...............................Crude ash 10%.................................Calcium
2.8% ..............................Crude protein 2.3%.................................Magnesium
0.1% ...............................Crude fiber 7%..........................Sodium
0.0% .................................Crude fat 2%..........................Phosphorous

Composition:
Molasses, Sodium chloride, Calcium carbonate, Magnesium phosphate, Mono calcium phosphate,
Garlic Powder, Calcium hydroxide, Calcium oxide.

Additives (per kg)
Nutritional additives
Trace elements:
50 mg I (3b202 Calcium Iodide);
10 mg Co (3b304 Coated granulated cobalt (II) carbonate);
1,750 mg Cu (3b405 Cupric(II)sulphate-pentahydrate);
1,750 mg Mn (3b503 Manganous sulphate monohydrate);
3,800 mg Zn (3b603 Zinc oxide);
105 mg Zn (3b606 Zinc chelate of amino acids hydrate);
10 mg Se (3b801 Sodium Selenite)
Vitamins:
500,000 IU Vitamin A (3a672a Retinyl acetate);
80,000 IU Vitamin D3 (3a671);
2,000 mg Vitamin E (3a700 dl-tocopherol);
200 mg Vitamin B1 (3a821 Thiamine mononitrate);
200 mg Vitamin B2 (Riboflavin);
140 mg Vitamin B5 (3a841 Calcium-d-pantothenate);
200 mg Vitamin B3 (3a315 Niacinamide);
140 mg Vitamin B6 (3a831 Pyridoxine hydrochloride);
30 mcg Vitamin B12 (Cyanocobalamin);
100 mg Vitamin B9 (3a316 Folic acid);
3,000 mg Vitamin B4 (3a890 Choline chloride);
1,000 mcg Vitamin H (3a880 Biotin)

Description:
This DufaFeed Horse Deli-Lick is a tasty regale for the horse, containing all additional trace
elements and vitamins the horse needs to improve health. Biotin and organic trace elements are
added to improve hoove strength. Garlic extract helps against flies.

Directions for use:
Place the bucket at a solid place, in the open field or in the shed.
Guideline: 1 bucket for several horses. 50 - 150 g per horse per day.
Warnings:
This product contains copper at levels that may be toxic for sheep!

Packing:
15 kg bucket.