

SELEKT®

SELEKT Clinical Nutrition Formulae and Equipment
Key Points for Cattle Vets



SELEKT® Clinical Nutrition Formulae

SELEKT Restore

For dehydrated cows and ewes. A formulation of dextrose and electrolytes, including calcium and magnesium, specifically designed for adult ruminants.

Key Points

- Alkalosis, hypochloraemia, hypokalaemia and hyponatremia are commonly seen in severely dehydrated cattle, and are associated with mortality.
- Sodium is included in SELEKT Restore to retain water in the extracellular-fluid compartment.
- Alkalosis is the more common acid-base disturbance observed in dehydrated cows. SELEKT Restore contains sodium chloride to correct chloride-depletion alkalosis.
- Potassium chloride is included to correct hypokalaemia and help correct alkalosis.
- Calcium and magnesium are included at physiological concentrations to prevent further dilution of these electrolytes in the rehydrated cow.
- Dextrose [glucose] is included to make it palatable. After rapid rehydration by pump-drenching, rehydration can be continued by allowing the cow to drink a solution of SELEKT Restore of her own accord.



SELEKT Fresh Cow 500

For reduction of the risk of milk fever; subclinical hypocalcaemia and ketosis in freshly calved cows. Also provides rehydration. Contains no potassium so does not block absorption of magnesium. Contains hydrolysed yeast to support the rumen flora when the ration changes.

Key Points

- SELEKT Fresh Cow 500 provides 108 g of calcium per dose in the form of calcium propionate, which contributes to serum calcium concentration over a 24-hour period.
- Calcium propionate is also a valuable substrate for glucogenesis.
- SELEKT Fresh Cow 500 provides 14.6 g of magnesium. This covers the daily requirement of the down-calving cow, with some surplus for correction of hypomagnesaemia.
- Contains hydrolysed yeast. The change to a high-starch ration for a freshly calved cow increases lactic-acid production in the rumen, creating a risk of sub-acute rumen acidosis. Hydrolysed yeast provides key nutrients for the lactate-utilizing bacteria of the rumen flora, so reducing this risk. Hydrolysis breaks the yeast-cell wall, so increasing the availability of the nutrients in the yeast.
- SELEKT Fresh Cow 500 contains no potassium or phosphorus, both of which have been shown to increase the risk of milk fever.



SELEKT Antacid

For acute rumen acidosis. Contains magnesium oxide and sodium bicarbonate to correct rumen acidity, dry yeast to support a favourable rumen flora, and ispaghula husk to protect the rumen epithelium.

Key Points

- SELEKT Antacid contains magnesium oxide, a powerful acid-consuming agent.
- Sodium bicarbonate is included as a buffer to prevent the pH of the rumen liquor from rising above 6.5.
- Lactic acid reduces the activity of cellulolytic bacteria. Yeast is included in SELEKT Antacid to stimulate the growth of bacteria that utilize lactate and digest cellulose.
- Ispaghula husk increases the expression of heat-shock protein 25 which protects epithelial cells.
- Acidotic animals will be dehydrated. Giving Selekt Antacid in 20 litres of water will rehydrate the animal.



SELEKT Off Feed

For inappetent cows. Based on SELEKT Fresh Cow 500, but with potassium to compensate for anorexia, and hydrolysed yeast to support the rumen flora and increase propionate production.

Key Points

- Contains calcium propionate, which will correct hypocalcaemia and provide a glucogenic energy substrate.
- Contains potassium to reverse hypokalaemia, which is a common finding in inappetent cows and cows affected by a displaced abomasum.
- Contains hydrolysed yeast. Inappetent cows quickly lose important bacteria from the rumen flora. The bacteria lost include cellulolytic bacteria which produce acetate, essential for the butterfat content of milk. Hydrolysed yeast provides key nutrients for cellulolytic bacteria, so helping to maintain the butterfat content of milk produced by the inappetent cow. Hydrolysis breaks the yeast-cell wall, so increasing the availability of the nutrients in the yeast.
- Contains magnesium to stimulate cellulose digestion, which will in turn increase appetite.
- There are anecdotal reports that gentian root, which is included in SELEKT Off Feed, promotes appetite.



SELEKT Glycerol Plus

Rapidly glucogenic formulation for reduction of the risk of ketosis in dairy cows. Also for ketosis recuperation. Contains glycerol and propylene glycol for a quick and sustained effect on blood-glucose concentration.

Key Points

- SELEKT Glycerol Plus contains two sources of energy, propylene glycol and glycerol. This delivers both a rapid and sustained increase in blood-glucose concentration via two glucogenic pathways.
- SELEKT Glycerol Plus contains hydrolysed yeast, the constituents of which stimulate the growth of bacteria that utilize lactate and digest cellulose. Hydrolysed yeast increases the production of propionate by 20 % which rapidly converts into glucose in the liver.
- A single one-litre dose of SELEKT Glycerol Plus given in 1 L or more of warm water is usually sufficient to resolve the clinical signs of ketosis.
- It is important to give SELEKT Glycerol Plus in water because it has been shown that glycerol is glucogenic only when given in water. Administering water is also beneficial as a ketotic cow will be dehydrated.



SELEKT Charbon Fluide Activated Charcoal Liquid

For conditions in which the action of an adsorbent in the gut is required. Contains activated charcoal, which has a high binding capacity for toxins.

Key Points

- SELEKT Charbon Fluide acts by adsorbing toxins.
- Applicable in a wide variety of conditions.



SELEKT Calcivit

A ready-to-dose oral drench formulated to reduce the risk of milk fever and subclinical hypocalcaemia in cattle.

Key Points

- SELEKT Calcivit provides 50 g of calcium from two sources: calcium chloride and calcium propionate for both a rapid and sustained increase to serum calcium concentration.
- Contains magnesium to avoid the negative effect hypomagnesaemia can have on calcium mobilisation.
- Includes vitamin D₃ to support intestinal calcium absorption.



SELEKT® Equipment

The robust and durable SELEKT Pump and Drenchers, together with the SELEKT Formulae, provide life-saving rehydration and clinical nutrition for cattle, sheep and goats.



SELEKT Pump

For administration and aspiration of fluids. To be used for adult cattle with a SELEKT Drencher or a SELEKT Collector.



SELEKT Drencher

For administration of fluids to adult cattle with a SELEKT Pump.



SELEKT Collector

For collection of rumen liquor from adult cattle with a SELEKT Pump and for transfaunation.



SELEKT Junior Drencher

For administration of fluids to small breeds of cattle, calves and yearlings of 150 kg to 500 kg. To be used with a SELEKT pump.



SELEKT Mini Drencher

For administration of fluids to calves, sheep and goats. To be used with a SELEKT pump.



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Feed safety and
quality assurance



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