

agilis



SELEKT™

SELEKT™ Clinical-Nutrition
Formulae Key Points for Cattle

Available through your Veterinarian



SELEKT™ Clinical-Nutrition Formulae

SELEKT Restore

A balanced formulation of dextrose and electrolytes, including calcium and magnesium, specifically designed for adult ruminants.

Key Points

- Sodium chloride is in SELEKT Restore to maintain the acid-base balance in cows.
- Potassium chloride is included to correct subclinical/minor potassium deficiencies.
- Calcium and magnesium assist in maintaining plasma electrolytes in the cow.
- Dextrose assists by making SELEKT Restore palatable.
Cows may be tubed, pump drenched or may drink of their own accord.

400g

Dextrose monohydrate	175g
Sodium chloride.....	155g
Potassium chloride	50g
Calcium propionate	16g
Magnesium sulphate 7-hydrate.....	4g

SRT02



SELEKT Fresh Cow 500

For reduction of the risk of milk fever and ketosis in freshly-calved cows. Also provides rehydration. Contains no potassium so does not block absorption of magnesium. Contains dry yeast to stabilise the rumen flora.

Key Points

- SELEKT Fresh Cow 500 provides 108g 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 14.6g of magnesium. This covers the daily requirement of the down-calving cow, with some surplus for correction of subclinical hypomagnesaemia.
- Contains yeast to improve the health of the rumen flora.
- SELEKT Fresh Cow 500 contains no potassium or phosphorus, both of which have been shown to increase the risk of milk fever.

700g

Calcium propionate	500g
Magnesium sulphate 7-hydrate	150g
Dry yeast.....	50g

SFC02



SELEKT Off Feed

For inappetant cows. Based on SELEKT Fresh Cow 500, but with potassium to compensate for anorexia, and gentian root to stimulate the appetite. Provides vital nutrients and supports the rumen flora.

Key Points

- Contains calcium propionate, which will correct minor hypocalcaemia and provide a glucogenic energy substrate.
- Contains potassium to reverse minor hypokalaemia, which is a common finding in inappetant cows and cows affected by a displaced abomasum.
- SELEKT Off Feed contains 50g of yeast in each sachet to promote the multiplication of cellulolytic bacteria and the utilisation of lactate, and reduce the production of lactate.
- 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.

785g

Calcium propionate	500g	
Magnesium sulphate 7-hydrate	150g	
Potassium chloride	80g	
Dry yeast.....	50g	
Gentian root.....	5g	SOR02



SELEKT Antacid

Contains magnesium oxide and sodium bicarbonate to stabilise rumen acidity and dry yeast to support a healthy rumen flora. For use when rumen buffering action is likely to be required.

Key Points

- SELEKT Antacid contains magnesium oxide, which is the most powerful antacid available.
- Sodium bicarbonate is included 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 utilise lactate and digest cellulose.
- Ispaghula husk is a fibre source which aides digestive health.
- Giving SELEKT Antacid in 20 litres of water will provide a source of fluid to the animal.

400g

Sodium bicarbonate	200g	
Magnesium oxide heavy	110g	
Dry yeast.....	50g	
Ispaghula husk	40g	

SAA02



SELEKT™ Clinical-Nutrition Formulae

SELEKT Glycerol Plus

A glucogenic formulation to aid with the reduction of risk for ketosis in dairy cows. It contains glycerol and propylene glycol to deliver both a rapid and sustained increase in blood-glucose concentration.

Key Points

- SELEKT Glycerol Plus contains two sources of energy to utilise two different glucogenic pathways:
 - propylene glycol gives a sustained release of energy.
 - glycerol, which has a similar calorific value to propylene glycol but is much less toxic, provides a rapid release of energy.
- SELEKT Glycerol Plus contains yeast, to assist in the stimulation of the growth of bacteria that utilise lactate and digest cellulose.
- It is important to give SELEKT Glycerol Plus in water because it has been shown that glycerol is only glucogenic when given in water. This aids in hydration.
- Feed 1kg per head to cows every 8-12 hours mixed with 10 litres or more of warm water.
- Contains Glycerol 630g, Monopropylene Glycol 320g, Dry Yeast 46g.
- Can be used alongside SELEKT Restore sachet and fluid therapy.



1 litre

Glycerol.....	630g
Monopropylene glycol	320g
Dry yeast.....	46g

SGP02

For the best results

1. If SELEKT Glycerol Plus is used on its own without other SELEKT formulae, it should be given with at least 10 times its own volume of water for maximum absorption.

This ensures the glycerol is absorbed rather than being degraded in the rumen.

2. When using SELEKT Glycerol Plus with other SELEKT formulae to aid hydration, it can be added to the solution without any extra water. Always use SELEKT Glycerol Plus with water.

Tip: Add warm water to drain all the yeast which may have settled on the bottom of the container.



How it Works

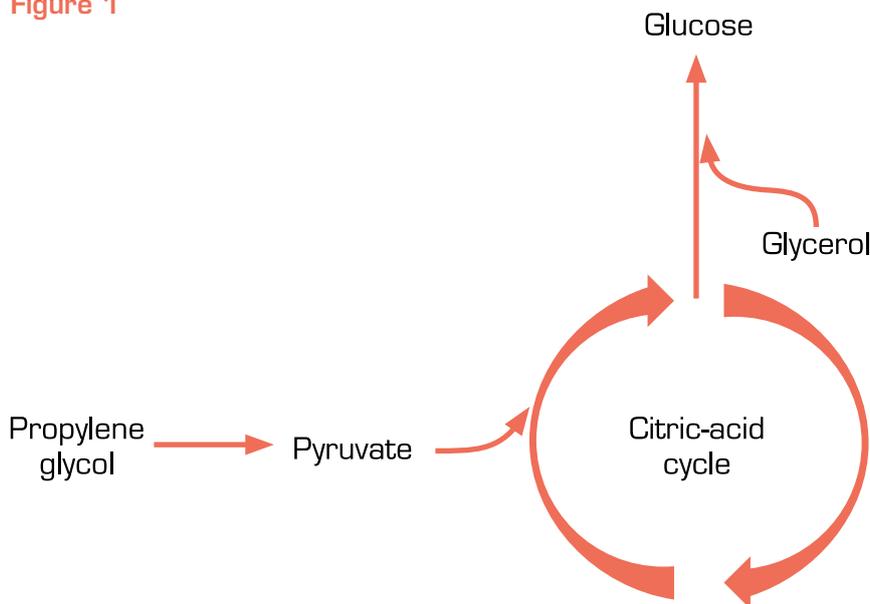
SELEKT Glycerol Plus has been formulated to give two sources of energy from:

- propylene glycol – commonly-used source of energy but can only be given in small amounts at any one time because of its toxicity;
- glycerol – similar calorific value to propylene glycol but much less toxic and can be given in larger amounts.

Propylene glycol must be converted to pyruvate before it enters the citric-acid cycle from where it is converted to glucose (Figure 1). Glycerol enters the same pathway several steps closer to glucose, so it yields glucose more quickly.

The effects of glycerol are therefore seen sooner than those of propylene glycol, and giving them in combination provides an extended period of energy supplementation. (Pethick *et al.*, 2000).

Figure 1



Overseas papers have suggested that glycerol plus may lead to less treatments than propylene glycol alone due to the toxicity of propylene glycol.

References

- CañPereyra, L. *et al.* (2015) *Irish Veterinary Journal* **68**: 25-31
Hippen, AR. *et al.* (2008) *Florida Ruminant Nutrition Symposium*
McArt, JA. *et al.* (2012) *Journal of Dairy Science* **95**: 2505-2512
Pethick, DW. *et al.* (2000) *Proceedings of the New Zealand Society of Animal Production* **60**: 94-98
Wood, S. (2014) *Cattle Practice* **22(2)**: 140



The robust and durable SELEKT Pump and Drenchers, together with the SELEKT Formulae provide rapid delivery of fluid and clinical nutrition for cattle.



Replacement Parts

1	Hose & Tip	SHT01
2	Pump Rod with Handle & Split Pin	203041
3	Pump Rod Coupling	203047
4	Pump Rod Washer	203055
5	Top Piece with Gasket	203046
6	Bottom Piece with Gasket	203051
7	Teflon-coated Washer	203048
8	Split Pin	203049
9	Hose Washer 24 mm	203011
10	Bottom Coupling	203052
11	Top Coupling	203053
12	Snap Hook	203004
13	Nose Tong	203001
14	Bucket & Lid 22 Litres	SBL01
15	Whisk 100 mm Dia	SWK01



SELEKT Pump

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

SPB01



SELEKT Drencher

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

SDS01



SELEKT Mini Drencher

For administration of fluids to calves, sheep and goats with a SELEKT Pump.

SMD01



SELEKT Collector

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

SRF01



Talk to your local Agilis rep about our free once-a-year pump servicing.

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Your next step in animal health
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