


Not just rehydration, what else?

Boviferm Plus is more than just a rehydration product, and is the complete solution for your scouring calves. With premium quality ingredients to assist your calves' return to health, Boviferm Plus is the complete solution for calves with diarrhoea.

‘Diarrhoea is the most common cause of death in calves from birth to one month of age, submitted for post mortem examination’

(All Island Ireland Disease Surveillance Report 2011)

Boviferm Plus Offers Premium Ingredients...	For...
Plant Mucilages	Protects the intestinal mucosa & helps damaged intestinal mucosa regenerate faster!
Oralin <sup>®</sup>	A probiotic which re-establishes & stabilises intestinal flora
Mineral & Vegetable adsorbents (montmorillonite, diatomaceous earth, pectin)	Firms stool and binds toxins, so they are rendered harmless & excreted
Astringents	Improves absorption of water and nutrients. Hinders penetration by enterotoxins
Camomile	Anti-inflammatory, reduces spasms
Fennel	Stimulates appetite, Relieves spasms, induces expulsion of gas
Aniseed	Relieves spasms, induces expulsion of gas

Product Description	Pack Size	Species	Withdrawal Period Milk	Withdrawal Period Meat	Dose Rate
Boviferm Plus (electrolytes, dextrose, buffering agents, lactic acid bacteria, vegetable mucins and mineral bulking agents)	24 x 115g sachets		Nil	Nil	1 sachet per 2L warm water and add 0.5-4.0L milk or milk replacer

List number 1BOV021

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# Boviferm<sup>®</sup> plus<sup>SID</sup>

More than just a rehydration supplement

REVOLUTIONARY DIETARY SUPPLEMENT FOR SCOURING CALVES

- ✓ Can be fed with milk or milk replacer
- ✓ Animal Health Ireland recommends scouring calves are kept on milk or milk replacer\*
- ✓ Superior Rehydration (Strong Ion Difference SID)
- ✓ Highly palatable
- ✓ Superior acidosis reduction
- ✓ Superior quality ingredients to promote rapid healing of the gut
- ✓ Bulking agents to bind toxins & firm the stool

\*Source: Animal Health Ireland, Management of the Scouring Calf





## The Problem - Dehydration Caused By Diarrhoea

**The Solution - Boviferm Plus' Electrolytes Offers Excellent Rehydration**

### Recommendations Per Litre of Rehydration Solution For Young Animals

Recommended Range			Boviferm Plus <sup>SID</sup>
90-140	mmol/L	Na <sup>+</sup>	111
40-80	mmol/L	Cl <sup>-</sup>	59
20-30	mmol/L	K <sup>+</sup>	25
30-80	mmol/L	buffering capacity	77
20-25	g/L	Glucose	22

## The Problem - Many Scour Rehydration Solutions Are Not Suitable For Feeding With Milk

**The Solution - Boviferm Plus Can Be Fed With Milk Or Milk Replacer**

### Boviferm Plus- More Than Just Rehydration

- Electrolyte drinks alone do not provide the calf with sufficient nutrients and energy.
- Stopping the milk drink for several days leads to interruption of growth. The calves actually starve.
- Electrolyte drinks containing sodium bicarbonate as a buffer are not suitable for simultaneous feeding with the milk drink, since the production of casein in the abomasum is severely impaired by NaHCO<sub>3</sub>.

**'Continuing to feed with milk or good quality milk replacer does not cause, worsen or prolong scour. The milk actually helps the healing of the intestine.'**

Report: Management Of The Scouring Calf, Animal Health Ireland

**The Problem - Many electrolytes disrupt clot formation in the abomasum, which is necessary for proper utilisation of milk by the calf.**

**The Solution - Boviferm Plus- does not interfere with clot formation, and aids the calf's recovery from diarrhoea**

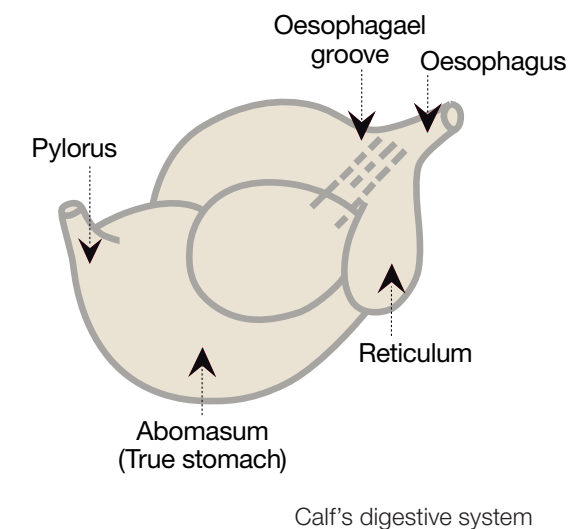
### The benefits of continued milk feeding

Continued feeding of milk to the calf is highly important. The milk clot which forms is slowly absorbed by the blood stream over the next few hours, meaning that even in damaged intestines, the calf has an opportunity to utilise the goodness of the milk through this slow release mechanism and get a sustained protein and energy supply.

However bicarbonate which is found in many electrolytes interferes with acidity of calf

stomach, causing a direct reduction in hydrochloric acid availability in abomasum. Therefore rennin cannot cause milk clot formation and casein and fat digestion is impaired.

Use of **Boviferm Plus** will not impede with clot formation so the calf will have the best chance to utilise the building block protein casein and the energy of the milk fats to aid healing of the intestine and recovery from the diarrhoea.



## The Problem - Acidosis

**The Solution - Boviferm Plus Offers Superior Buffering or Alkalizing Capacity**

### SID (Strong Ion Difference)

Scouring calves will often suffer from acidosis. To overcome the danger of acidosis, it is vital to neutralise high acid levels as soon as possible. **Boviferm Plus** offers superior alkalizing capacity.

A measurement of how effectively a product neutralises the acid is known as Strong Ion Difference, or SID. As the below chart demonstrates **Boviferm Plus** offers a superior Strong Ion Difference

