

Ravensdown calf milk replacer



calf rearing
system



Ravensdown Calf Milk replacer is a whey based calf milk replacer manufacturer for Ravensdown by Nutrifeed of the Netherlands.



The key to top calf growth and performance;

- **adequate colostrum**
- **quality CMR**
- **good environment**
- **low stress**
- **close monitoring**
- **good feed programme**
- **good weaning & finishing**
- **early rumen development**
- **excellent appetite**

Features of whey protein calf milk replacers

Historically, calf milk replacers (CMR) in New Zealand have been of the curdling type, formulated with casein proteins. Whey based powders have been the performance benchmark for CMR's in Europe for over three decades. Whey powders are digested and absorbed quickly from the true stomach or abomasum in 1.5-2.0 hours whereas curdling powders take 6-8 hours to absorb.

1. Benefits of whey

Whey protein is the "gold standard" for digestibility and net protein utilisation (NPU) exceeding curdling casein and egg based protein sources.

2. Calf health

Nutritional scours have been reduced by up to 50% in trials on calves from 4 days compared to skim casein based powders.

The fact that whey powders do not need to curd

to be digested explains much of this benefit. Curdling ability can be variable based on quality and damage to ingredients, stress levels, digestive acid production, feeding levels and milk temperature.

3. Increased appetite for dry feed

Rumen development is dependent on dry feed intake. Quicker digestion via whey means earlier and higher intakes of grain based starter feeds. Quickly ruminating calves are generally more cost effective to rear.

4. Whey has high lysine levels and an excellent balance of all essential amino acids

Amino acids are the building blocks of protein and lysine is the first limiting amino acid. Essentially calves need digestible lysine more than they need crude protein to grow.

5. Quality and consistency are extremely high

Leading edge processing technology ensures that whey protein and lactose fractions are not damaged. Processing damage can lead to poor digestion and nutritional and/or pathogenic scours.

6. Whey proteins help immune function

Whey helps raise glutathione levels, the “mother of all antioxidants”. Glutathione also helps protect against viruses and assists maintaining good gut integrity.

7. Cost effectiveness

Ravensdown Calf Milk Replacer is able to be supplied significantly cheaper than whole milk powders, and with increased digestion and reduced scours, it is a cost effective calf rearing system.

Essential help for better calf performance

The imagro concept

Nutrifeed includes prebiotics and probiotics which improve digestive health and efficiency. These help to out compete bad bugs and allow good ones to maintain control. This helps reduce the risk of scours from all sources.

The magic of acidification

Acidifying additives have given excellent cost benefit returns even with healthy calves in practical trials. Stress among other factors causes lower acid secretion. Adequate gut acid production is vital to help digest proteins and keep bad bugs under control. Key bacteria like ‘Oralin’ and acidophilus, produce natural digestive lactic acid. Nutrifeed also includes ‘Lactitol’, a prebiotic

which helps feed these good bacteria so they can increase their own acid output. Nutrifeed also includes ‘Lactacid’, an excellent organic acid to support bacterial acid production and further optimise the gut environment and aid in the control of potentially harmful pathogens.

Balanced vitamins

Ravensdown Calf Milk Replacer has all key vitamins meeting calf requirements with added safety margin. These levels are well in excess of those found in whole milk powder and similar to levels found in colostrum for key vitamins.

Appetite is everything

Nutrifeed know what flavours calves love. These have been included in Ravensdown Calf Milk Replacer to boost early appetite to help accelerate early growth rates.

Electrolytes and scours

All scouring calves should be treated with 8-10 litres of electrolytes. For persistent scours, consult your veterinarian.



Feeding recommendations

Ravensdown Calf Milk Replacer has been flexibly designed to work well under a range of feeding systems including Once-A-Day, Twice-A-Day and Ad lib systems

1. Always use clean and disinfected compartment type feeder systems.
2. Best results are achieved when milk feeding temperature is 40-42 °C. Mix powder with half the volume of water at 45-55 °C then stir thoroughly for one minute before adding the remainder of the water. Do not mix and store made up milk. Use immediately and discard unused milk.
3. Ravensdown Calf Milk Replacer should be mixed at 125-150 grams per 1.0 litre of clean warm water.
4. A general guideline is to feed calves milk volumes at 10% of their body weight. This is an absolute minimum for modern genetic stock. Feeding calves at 12-15% of body weight may give more optimum lifetime economic responses under many situations.

Ingredients

Crude Protein	23%	Tryptophan	1.05%
Crude Fat	20%	Sodium	0.90%
Lactose	38%	Phosphorus	0.80%
Crude Fibre	<0.2%	Calcium	0.70%
Minerals	9.5%	Vitamin A	55,000IU
Metabolisable Energy		Vitamin D3	4,500IU
-Kcal/kg	4040	Vitamin C	120ppm
-MJ/kg	16.9	Moisture	4.0%
Lysine	1.65%	pH	5.8-6.2
Methionine & Cysteine	1.30%		
Threonine	0.30%		

General feeding guidelines

Twice a day feeding

Days 0-4	Feed colostrum ad-lib
Days 5-14	Feed 1.5-2.0 litres twice daily (mix 125g per 1.0L water)
Days 15-28	Feed 2.5 litres twice daily (mix 125g per 1.0L water)
Days 29+	Feed 3.5 litres twice daily (mix 125g per 1.0L water)

Once a day feeding

Days 0-4	Feed colostrum ad-lib
Days 5-14	Feed 1.5-2.0 litres twice daily (mix 125g per 1.0L water)
Days 15-28	Feed 2.0 litres once daily (mix 250g per 1.0L water)
Days 29+	Feed 2.0 litres once daily (mix 312g per 1.0L water)

Ideally it is recommended not to fortify liquid vat milk with Ravensdown Calf Milk Replacer powder. Seek expert advice if doing so. Mixing curding and non-curding powders or milk can create nutritional type scours especially where the milk source is variable in concentration. Ensure constant ratios of nutrients and daily intakes if pursuing this feeding practice.

Coccidiosis control and advice

Ravensdown Calf Milk Replacer does not include a coccidiostat. Talk to your veterinarian about your overall health and hygiene control programme.

For more information

Please call the Ravensdown Customer Centre on **0800 100 123** for more information, to place an order or to speak with your local Account Manager about how Ravensdown Calf Milk Replacer can improve your calves' growth and performance. Or you can visit our website to download technical information sheets at; www.ravensdown.co.nz