

# Power Whey Calf Milk Replacer

Specifically designed for New Zealand conditions

Milk replacer for calves from four days old. Suitable for all feeding systems.

NRM Power Whey Calf Milk Replacer (CMR) contains a precise and proven blend of whey proteins, vegetable proteins, and highly digestible vegetable oils. Fortified with vitamins and minerals for optimal growth, Power Whey contains prebiotic, probiotic and organic acids to enhance disease resistance. Power Whey does not contain an anti-coccidial.

## Key Benefits and Features

- Formulated specifically for calves from day four.
- Cost effective – faster whey digestion results in higher intake of dry feed and earlier rumen development.
- Reduced nutritional scours due to rapid digestibility – Power Whey does not require curding.
- Premium highly digestible ingredients for healthy growing calves.
- High vitamin levels and added prebiotic, probiotic and organic acids to assist in reducing gut pathogens and promote beneficial gut microbes for enhanced disease resistance.

## Feeding Recommendation

As a guide, a calf should receive at least 10% of its bodyweight daily. For example a 40kg calf requires 4 litres (4x125g/L) of milk replacer per day. For fortified 'once-a-day' feeding systems Power Whey may be fed in a reduced volume of water (refer to feeding rates table). For best results feed NRM Moozlee ad-lib from day five.

In periods when calves are stressed (e.g., disease recovery, environmental) NRM recommends a higher rate of Power Whey addition (150g/L in a twice- a-day or 700g/2.5L in a once-a-day feeding system). Jersey Calves are best fed on a twice-a day regime of 125 - 150g/L until weaning. Always allow free access to fresh, clean water.

## Feeding Rates

AGE	TWICE-A-DAY FEEDING	ONCE-A-DAY-FEEDING
Day 0 - 4	colostrum ad-lib	colostrum ad-lib
Day 5 - 10	2L twice-a-day*	2L twice-a-day*
Day 11 - 21	2.5L twice-a-day*	600g with water to make up 2.5L
Day 22 - wean	3L twice-a-day*	600g with water to make up 2.5L

\* 125-150g of NRM Power Whey with water to make up 1L

## Mixing

Mix 125 - 150g of Power Whey with water to make up 1L. Add the required amount of powder to half the volume of hot water (45°C - 55°C) and mix vigorously for 1 minute. Then top up with water to the required volume so that the milk replacer is fed at 38°C - 42°C.

## Weaning

Wean off milk gradually at 65kg minimum weight, when consuming 1kg of NRM calf feed per day. Continue to provide NRM calf feed for one month after weaning from milk.



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## Ingredients selected from

Premium milk whey, hydrolysed wheat gluten, soya protein concentrate, nutritional pre-mix (containing vitamins, minerals, prebiotic, probiotic and organic acids), quality vegetable oils, flavouring, nutritional emulsifier and flavouring and free flow agents.

## Storage

Store between 10 and 20°C in clean, dry conditions. Do not expose to direct sunlight and avoid contact with floor and walls.

**Caution: Do not feed to any animal species other than those stipulated on the label.**

## Typical analysis (approximate on an as fed basis)

Crude Protein	23%
Crude Fat	20%
Crude Fibre	<0.2%
Lactose	38%
Moisture	4%

## Treatment for scours

Treatment for scours (diarrhoea) is similar whatever the cause. Keep feeding milk (2 x 2 litre feeds) but introduce an electrolyte solution (salts, dextrose for energy, and water for dehydration). If scours persist for more than three days consult your veterinarian.

## Caution

- Colostrum must be fed for the first four days, including at least 4 litres in the first 24 hours.
- All feeding equipment must be clean. Disinfect with a suitable product e.g. Virkon®S.
- Make changes to the volume or concentration gradually.
- Feeding recommendations are a guide only, adjust volume fed to the weight of the calf.
- House calves for a minimum of three weeks.
- Power Whey does not contain a coccidiostat.

## Whey facts

- High quality whey based CMR is based on consistent blends of proven high quality ingredients.
- Whey based CMR trials show that calf performance is equal to that of other traditional casein based CMR products available in New Zealand.
- High quality whey based CMR reduces the incidence of scours compared to traditional casein based CMR.
- Up to 50% reduction in scours in young calves based on numerous research trials in Europe.
- High quality whey based CMR is absorbed in half the time of traditional casein based CMR.
- Provides 13% greater concentrate intakes from 0 - 42 days – which should lead to faster rumen development.
- NRM's Power Whey CMR has premium ingredients especially formulated for calves from day four.
- Not all CMR products are the same, some are suitable only for calves over three weeks of age.

## Common myths

**MYTH:** Whey and vegetable proteins cause more scours.  
**FACT:** Research shows the high quality proteins used in CMR, such as Power Whey, actually reduce the incidence of scours

**MYTH:** Soya proteins and vegetable oils are not suitable ingredients for CMR.

**FACT:** Power Whey is manufactured using only proteins and oils proven to be suitable for calves from day four. It is true, however, that some vegetable proteins and oils used in lower quality milk powders may not be suitable for calves.

**MYTH:** Traditional casein based powder is superior to whey based proteins.

**FACT:** The performance of both high quality traditional casein based and whey based CMR are very similar. However, Power Whey is proven to have faster rumen development and less scours when fed with calf feed.

**MYTH:** Whey based CMR can only be used as a 'finisher' milk replacer.

**FACT:** Power Whey is a premium CMR specifically developed for feeding calves from day four.