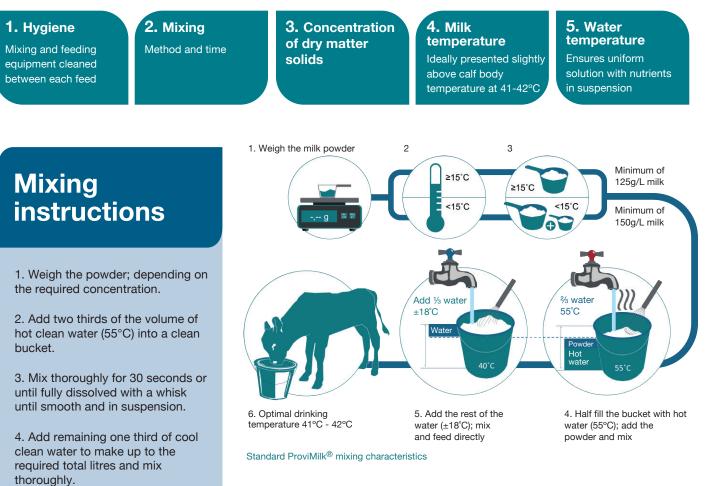
## CALF MILK REPLACERS

The practicalities

# Preparation of calf milk replacer, feeding schedules and growth targets.

The preparation of calf milk replacers requires an understanding of **5 key areas**:



**ProviMilk® Calf Milk Replacers** are typically fed at a concentration similar to that of maternal whole milk i.e. 12.5% dry matter (125g/kg DM). However, they can be fed at concentrations ranging from 10 to 20% dry matter (100 to 200g/kg DM), depending on the feeding system and growth rate required.

Speak to your Cargill representative for more information.



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between 41°C and 42°C degrees.

6. Optimal drinking temperature

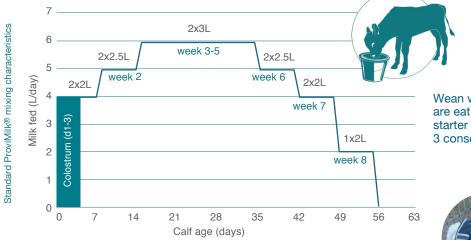
5. Check the temperature to make

between 41°C and 42°C, and feed the required amount to the calf

sure that drinking temperature is

immediately.

### Feeding schedule



This feeding schedule can be used for either 125g or 150g powder concentration, twice a day feeding. Other feeding systems are outlined in the table below:

System	Concentration	Ratio (powder : water)
Twice-a-day	10% 12.5%	100g : 900ml 125g : 875ml
Once-a-day Accelerated*	20% 15%	200g : 800ml 150g : 850ml

Wean when calves are eating 2kg of starter feed daily for 3 consecutive days.



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#### **Growth targets**

The only way to ensure heifers achieve the growth targets set, and reduce the variation within groups is to regularly measure and monitor growth rate.

#### Top tips

- Set growth targets for the herd based on mature body weight of the cows in the herd from lactation 3 onwards and aim for 55-60% of mature body weight at first breeding.
- Measure calves at birth and again when heifers are handled for routine farm practices e.g. vaccinations, worming, insemination.
- Use weighing equipment such as a weigh crate or weigh band.
- Use the same measure consistently so growth can be benchmarked between weighing intervals.

#### Weight and height targets for heifers

Stage	Weight	Height	and the
Puberty	45-50% of mature weight	79-83% of mature height	
Breeding	55% of mature weight	85% of mature height	
Just pre-calving	95% of mature weight	95% of mature height	
7 days post calving	85% of mature weight	85% of mature height	

To determine mature size either use a breed standard for the weight and height of the breed in question or weigh/measure a group of 3+ lactation cows to work out herd average.

#### Weight and dry matter intake targets for heifers

Age (months)	Live DMI (kg)	% of mature weight	Target DMI (kg)
3 6 12 14 18 24	120 190 330 375 (bulling) 465 625	18 - 20% 55% 95%	3.5 5.0 8.0 8.6 10.2 11.7

These targets are based on targets for Holstein heifers.

Please contact your Cargill representative for specialist advice on selecting suitable mixing and feeding regimes tailored to your overall calf performance objectives.

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Provimi® is brand of Cargill; a family-owned company with more than 150 years' experience in developing food and feed ingredients. Cargill develops results-oriented nutritional solutions and feeding programmes, helping producers thrive and grow their business.