The benefits of colostrum are a given and feeding 4L of good colostrum in the first 2 hours of a calf’s life is key, but increasingly there is a realisation that this is not the full story.

The surface of the small intestine (SI) is like an external skin and has to withstand the physical and chemical abrasion of food, digestion and the continuous attack of pathogenic organisms. The cells of the small intestine are replaced by new cells within a few days of birth and the surface antibody from colostrum, at this stage, is rapidly depleting leaving these new cells vulnerable to attack.

Transition milk contains surface antibody that can replace the colostrum antibody and this will remain in the SI to help maintain calf intestinal health. In order to protect calves against rotavirus farmers are vaccinating cows to increase the level of antibody in colostrum but this will only be partially effective unless colostrum or transition milk is continued to be fed for at least 7-14 days. Because of Johne’s disease and practical issues on many farms, calves only get 1 or 2 feeds of colostrum, at most, before going on to milk replacer.

What’s in Transformula?

There are many ingredients that can be added to a specialised calf milk to improve animal performance and protect calf genetic potential. TRANSFORMULA contains a range of these ingredients at concentrated levels to nurture calves for the first 10 days of life. The ingredients included are,

- Beneficial Probiotic bacteria to compete with pathogens in the small intestine. Kryptonite – a plant extract to ensure the small intestine is a hostile environment for pathogens. Yeast extract to heighten the calf’s immune response.
- Linseed oil to reduce inflammation reactions.
- Egg protein from hen’s immunised with Rotavirus, Coronavirus, E. coli and Salmonella.
- Over 200g of low heat skim milk, buttermilk and concentrated whey protein in every 300g of feed.
What is Transformula?

Transformula is designed for use after colostrum feeding. Made with over 60% skim milk and buttermilk along with 5 plant oils and whey protein it is easily digested by the baby calf. Dried under low temperatures it ensures the baby calf is not exposed to high bacterial counts found in stored raw cow’s milk. These bacteria remove antibody from the milk and can have pathogenic effects as well. It also contains ultra high levels of plants extracts, probiotics, prebiotic and egg protein. These can be found in other calf milks but only at low levels. The levels included in Transformula are comparable to the calf tubes and pastes available in the market.

Transformula should be fed for 7 days post colostrum before calves are moved on to calf milk or pasteurised cow’s milk.

Feeding Transformula?

Feeding TRANSFORMULA will cost £14-15/calf or a net cost of £5 over standard milk replacers. It will set baby calves up for the next 6-7 weeks of milk feeding and produce stronger healthier weaned calves.

Mix Rate

The average dry matter content of transition milk is 14%.

Add 1 L jug of powder to 3 ½ L jugs of water or 140g of powder made up to 1L of mixed Transformula.
What is Transformula?

Analysis
- Crude Protein: 23%
- Crude Fibre: 0%
- Crude Fat: 22%
- Ash: 7.5%

Moisture: 4%
Calcium: 1%
Phosphorus: 0.8%
Sodium: 0.5%

Additives
Vitamins
- Vitamin A (E672): 25,000IU
- Vitamin D3 (E671): 10,000IU
- Vitamin E (E307): 90mg
- Vitamin C: 300mg

Compound of Trace Elements(/kg)
- Cupric Sulphate (E4): 10mg
- Iron Sulphate (E1): 83mg
- Sodium Selenite (E8): 0.2mg
- Selenomethionine (3b810): 0.13mg

- Zinc Sulphate (E6): 96mg
- Manganous Sulphate (E5): 93mg
- Potassium iodate (E2): 2mg

Gut Flora Stabilisers (/kg)
- Bacillus Lincheniformis DSM 5749 (E1700) 6.4x10⁸ CFU/kg
- Bacillus Subtilis DSM 5750 (E1700) 6.4x10⁸ CFU/kg

Flavouring compounds
- Flavours, Plant extracts

Antioxidants
- BHT (E321) 37ppm

Composition
- Skim milk powder, Whey powder, Buttermilk powder (stemming from dairy cream), Rapeseed oil, Whey Protein concentrate, Coconut Oil, Palm Oil, Linseed Oil, Egg Products, Yeast Products.

<table>
<thead>
<tr>
<th>Day</th>
<th>Milk Description</th>
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<tbody>
<tr>
<td>Day 1</td>
<td>Colostrum up to 10% of calf’s body weight or 4L in first 2 hours of life</td>
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<tr>
<td>Day 2-10</td>
<td>350g in 2 ½ L of mixed Transformula twice a day</td>
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<tr>
<td>Day 10+</td>
<td>Change to pasteurised cow’s milk or milk replacer</td>
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