



delivering you growth

LactoBoost



LactoBoost is a palatable high energy, lactose rich, free-flowing liquid proven by research at SRUC to effectively replace cereal and maintain milk and milk constituent yield. LactoBoost provides a rapidly available source of rumen energy from milk sugar, aids fibre digestion and improves efficiency of protein utilisation. LactoBoost is the most cost-effective source of ready to feed sugar, typically a third of the cost of sugar from molasses.

Typical Analysis (on a dry matter basis)

| Dry matter (%) | Energy (MJ ME/kg DM) | Crude protein (%) | Oil (%) | NDF (%) | Lactose (%) |
|----------------|----------------------|-------------------|---------|---------|-------------|
| 23.0 | 13.5 | 3.0 | 0.7 | 0.0 | 85 |

What are you trying to achieve?

| Need | Feature | Benefit |
|---|---|---|
| Increase milk yield | A ready source of fermentable energy as lactose sugar | Improves fibre digestion by stimulating fibre-digesting bacteria with an instant energy source, resulting in more energy for milk production and a trend towards higher milk fat %. |
| Improved efficiency of feed protein use | Quick release lactose sugars improve capture of rumen degradable feed protein | Reduced milk urea output as more feed protein is converted to microbial protein. Lower nitrogen emissions to the environment. |
| Reduce ration sorting and minimise dust | A binding liquid. | Livestock consume a more balanced ration, reducing the risk of acidosis and improving feed efficiency. Less dust reduces feed waste, improves the working environment and feed intakes. |
| Drive intake | Highly palatable with low concentrate substitution rate. | Stimulates total feed intake, including home produced feeds, thus lowering feed costs. |
| No processing, ready to feed | High lactose liquid | Easy to store and convey, all year round availability |

The predicted responses (benefits) assume that the specified nutrient, physical or structural dietary components are limiting livestock performance in the current ration.

† +44 (0) 1733 422214

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Suggested feeding rates are produced as a guide only and many other factors may have an overriding effect on animal response; no performance guarantee can be given. Rations should be carefully balanced for energy and protein, contain sufficient forage to maintain rumen function and be fortified with an appropriate vitamin and mineral supplement. Animals must have constant access to clean water.



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Complementary Concentrate Feeds

- **High digestible fibre feeds** e.g. sugar beet feed products and soya hulls
- **High starch feeds** e.g. cereals
- **Protein feeds** e.g. distillers and rape seed meal
- **Rumen bypass proteins** e.g. SoyPass, ProtoTec

Recommended daily feed rates (per head basis)

LactoBoost can be fed as part of a TMR, within a blend or as a straight liquid by pouring onto other feeds.

| | |
|----------------------|---------------------------------------|
| Milking Cows | Up to 9 (typically 6)kg |
| Dry Cows* | Up to 2.5 kg |
| Replacement Heifers | Up to 2.5 kg and up to 10% of the DMI |
| Calves (to 12 weeks) | Up to 1 kg and up to 10% of the DMI |
| Growing Cattle | Up to 2.5 kg and up to 15% of the DMI |
| Finishing Cattle | Up to 8 kg and up to 20% of the DMI |
| Suckler Cows | Up to 4 (typically 2)kg |
| Ewes and Rams | Up to 0.5 (typically 0.25)kg |
| Hoggets and Lambs | Up to 0.5 kg and up to 10% of the DMI |

* LactoBoost has a high sodium content so check dry cow ration dietary cation anion balance (DCAB).

DMI = Dry Matter Intake

Availability, handling and storage

LactoBoost is delivered in 29 tonne liquid tankers and is available UK wide, all year around.

Tanks should be built to hold and dispatch bulk liquids. A 4-inch diameter pipe work is adequate to handle this liquid.

Tanks should be well maintained and cleaned out regularly to prevent bacterial contamination and fermentation of LactoBoost. Mixing of LactoBoost with other liquids (molasses etc.) may cause secondary fermentation, potentially reducing the nutritive value and creating an odour/taint. Hence prior to the first delivery it is highly recommended that the container / tank be cleaned thoroughly. We recommend a load of LactoBoost is fed within 4 weeks of delivery.

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Additional information

Method of production

LactoBoost is a co-product from the processing of milk for cheese and whey protein product manufacture. The whey permeate that remains after cheese manufacture is ultra-filtrated to remove the majority of the whey protein and some minerals. This leaves LactoBoost a very high lactose sugar liquid.

Quality Assurance

Whey permeate is a FEMAS assured (or a recognised equivalent) product. Whey permeate is listed under number 8.21.1 in the EU Catalogue of Feed Materials.

Legal Disclaimer

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Detailed Typical Analysis (fresh basis other than where stated)

| | | | | | |
|----------------------|----------|-------|------------|-------|------|
| Dry matter | % | 23.0 | Calcium | g/kg | 1.2 |
| Oil A | % | 0.16 | Magnesium | g/kg | 0.32 |
| Oil B | % | 0.16 | Phosphorus | g/kg | 1.38 |
| Crude protein | % | 0.69 | Potassium | g/kg | 4.37 |
| Crude protein: DM | % | 3.00 | Sodium | g/kg | 2.20 |
| Fibre | % | 0.00 | Copper | mg/kg | 1.15 |
| Ash | % | 1.89 | Manganese | mg/kg | 0.69 |
| ME* – <i>in vivo</i> | MJ/kg DM | 13.5 | Selenium | mg/kg | 0.01 |
| NDF | % | Trace | Zinc | mg/kg | 1.15 |
| Starch | % | Trace | Salt | % | 0.71 |
| Sugar as lactose | % | 19.5 | | | |

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