

Whey Concentrate



A palatable high energy, lactose rich, free flowing liquid designed to drive intakes and milk yield; providing rumen energy to aid microbial function and reduce diet sorting. The higher protein content of Whey Concentrate (as compared to Lactoboost) makes this product an ideal alternative to feeding cereals.

Typical Analysis (on a dry matter basis)

Dry matter (%)	Energy (MJ ME/kg DM)	Crude protein (%)	Oil (%)	NDF (%)	Lactose (%)
23.0	13.5	13.6	0.8	0.0	74.0

What are you trying to achieve?

Need	Feature	Benefit
Drive intake	Highly palatable with low concentrate substitution rate.	Stimulates total feed intake, including home produced feeds, thus lowering feed costs.
Increase milk yield	A ready source of fermentable energy as lactose sugar	Balances less rapidly digestible energy sources such as cereals and low protein forages.
Increase milk protein	An ideal alternative to feeding cereals, replacing starch with sugar whilst maintaining protein	Increasing the sugar level in the ration stimulates milk protein production.
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, and improves feed intakes.
No processing, ready to feed	High lactose liquid	Easy to store and convey.

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

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



because we're different

0845 355 9935

www.kwalternativefeeds.co.uk



Recommended daily feed rates (per head basis)

Whey Concentrate 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 5 (typically 3)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 3.5 kg and up to 15% 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

DMI = dry matter intake

Availability, handling and storage

Whey Concentrate 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 Whey Concentrate. Mixing of Whey Concentrate 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.

The high concentration of Lactose in Whey Concentrate may start to settle out after 3 days of delivery depending upon ambient temperature. The product should be agitated or circulated at least once a week, to ensure consistency as a layer of lactose sediment may build up in the tank which can solidify, for this reason we also recommend a load is fed within three weeks of delivery.

Additional information

Method of production

Whey Concentrate is whey permeate, a co-product from the milk processing industry in the production of cheese. After some of the whey protein and some minerals have been removed by filtration a very high sugar liquid, in the form of lactose, is produced.

Quality Assurance

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

Legal Disclaimer

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.



Whey Concentrate

Detailed Typical Analysis (fresh basis other than where stated)

Dry matter	%	23.0	Calcium	g/kg	1.2
Oil A	%	0.20	Magnesium	g/kg	0.32
Oil B	%	0.20	Phosphorus	g/kg	1.38
Crude protein	%	3.20	Potassium	g/kg	4.37
Crude protein: DM	%	13.6	Sodium	g/kg	2.20
Fibre	%	0.00	Copper	mg/kg	1.15
Ash	%	1.90	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	%	17.02			



because we're different

0845 355 9935
www.kwalternativefeeds.co.uk