

# LactoBoost

Why permeate is a high energy, lactose rich, free flowing liquid that boosts biogas production rapidly alongside existing feedstocks.



OK for on-farm AD facilities



OK for Waste permitted AD facilities



## Typical analysis

	Dry matter (%)	Volatile Solids (% VS of TS)	Methane (m <sup>3</sup> CH <sub>4</sub> /T fresh)	Sugar (% DM)
LACTOBOOST	23	92	90	85
MAIZE*	32	91	98	2

\* Based on a typical maize silage analysis

**95% methane production after 3 days**

## What are you trying to achieve?

Need	Feature	Benefit
Quick gassing liquid feedstock	95% of methane produced within the first 3 days.	High sugar content is readily digestible in the fermenter to produce gas quickly.
Reduce effect of ammonia toxicity	Increases C: N ratio	Complimentary co-product to high nitrogenous feedstocks where there is risk of ammonia toxicity.
No processing, ready to feed	High lactose liquid	Easy to store and convey, liquid form assists in aiding viscosity or liquor recirculation requirements.

# LactoBoost

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## EA Classification:

'By-Product'

## RHI Eligibility:

'Processing Residue' – talk to us for more details

## 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.

## Handling, Storage and Health & Safety

- LactoBoost is delivered in 29 tonne liquid tankers.
- 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 tank be cleaned thoroughly.
- We recommend a load of LactoBoost is fed within 4 weeks of delivery.
- MSDS information available on request.

## Recommended Feed Rates

Gradually introduce at a maximum of 5% of daily loading at first and increase slowly after.

## Quality Assurance

Lactoboost is a FEMAS assured product and marketed by Amur and KW Alternative Feeds, a UFAS-accredited merchant. Lactoboost is listed under number 8.21.1 in the EU Catalogue of Feed Materials.

## Please Note

Suggested feeding rates and energy values are produced as a guide only and many other factors may have an overriding effect on performance.

*Disclaimer: based on independent and Amur trials*

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## Typical Detailed Analysis (fresh basis other than where stated)

Dry matter	%	23.0	Calcium	g/kg	1.92
Oil A	%	0.20	Magnesium	g/kg	0.29
Oil B	%	0.28	Phosphorus	g/kg	1.99
Crude protein	%	1.15	Potassium	g/kg	6.23
Crude protein: DM	%	5.00	Salt	g/kg	10.8
Fibre	%	0.00	Sodium	g/kg	3.60
Ash	%	2.40	Copper	mg/kg	1.44
ME* – in vivo	MJ/kg DM	12.5	Manganese	mg/kg	3.60
NDF	%	0.00	Selenium	mg/kg	0.02
Starch	%	0.00	Zinc	mg/kg	6.50
Sugar	%	19.2	Saturates	% of oil	70.0
			Monounsaturates	% of oil	25.0
			PUFAs	% of oil	5.0
			Long chain PUFAs	% of oil	0.00

# Get in touch

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We'd love to talk to you about your current or planned AD system. Get in touch using the details below to find out how we can help optimise your gas yields and get the best returns from your AD business venture.

**01733 422716**

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## Our locations

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### **Peterborough office**

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### **Sherburn office**

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### **Our AD Plant**

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