

SOYPREME



Borregaard LignoTech is one of the world's leading suppliers of high performance additives and ingredients to the animal feed industry.

High Class Bypass for ruminants



SoyPreme contains bypass protected protein and oil. It provides a high level of rumen undegradable yet highly digestible protein and oil that is perfect to support today's higher milk and beef production.

Soya beans are rich in protein (35-38%) and oil (20 %) and are normally used in traditional animal feed for all livestock, such as toasted beans for ruminants and full fat soybean meal for monogastrics. However, for ruminants a significant proportion of this vegetable protein, if not treated correctly, can be degraded in the rumen, far too early in the digestive system for animals to exploit fully. Degradation of the protein in the rumen also releases oil that can interfere with the ability of microbes to digest fiber.

SoyPreme helps overcome this problem by protecting the protein and oil while in the rumen, but allowing it to be fully digested within the small intestine. Consequently, better utilization of the essential amino acids and fatty acids occur, resulting in improved milk and meat quality, production and growth.

SoyPreme is available from selected Borregaard licensed producers.



Benefits associated with feeding SoyPreme

- Increased level of polyunsaturated fatty acids in milk and meat products
- Improved milk yield
- Improved feed conversion for beef steers
- Improved meat quality from beef producing animals
- Improved characteristics of processed milk products
- Increased energy density without the negative feed intake effects associated with high fat diets.



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Application

Milk cows: SoyPreme offers the possibility to maintain the energy level when there is a reduction of feed intake. It is also possible to increase the calorific density of the ration without increasing the starch content. SoyPreme also positively influences the fatty acid content and yield of the milk.

Fattening beef cattle: SoyPreme is an exceptional source of protein and energy. The recommended daily dosage is approximately 15% of the total dry matter intake (or max 2kg/day); animals fed with SoyPreme ruminant better. Additionally the fatty acid content of the meat is positively influenced by SoyPreme and taste is excellent.

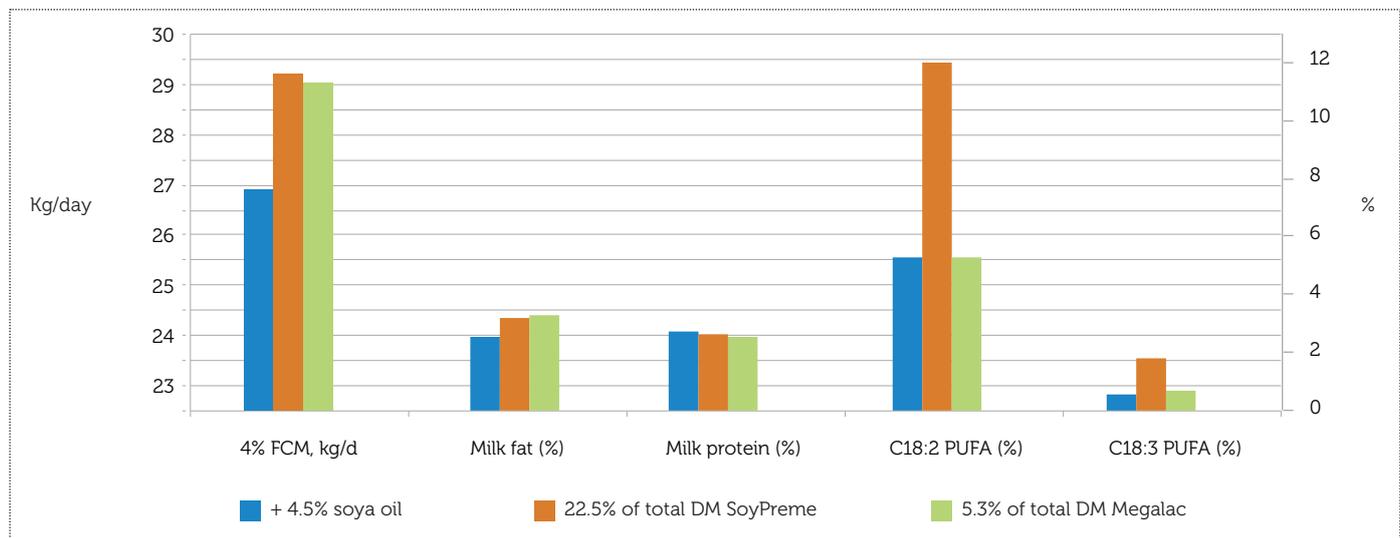
| SoyPreme typical analysis – g/kg product (fresh) | | | |
|--|-----|------------|------|
| Dry matter | 891 | Ca | 5,5 |
| Crude Protein | 350 | P | 5 |
| Oil | 193 | Na | 0,15 |
| Crude Fibre | 49 | Mg | 2,8 |
| Ash | 57 | K | 1,6 |
| Starch | 42 | Lysine | 21 |
| Sugars & Starch | 108 | Methionine | 4,7 |

| French values – g/kg (dry matter) | |
|-----------------------------------|-----|
| PDI-A | 209 |
| PDI-N | 279 |
| PDI-E | 274 |

| AAT/PBV-system | | NorFor | |
|--|-------|-----------------|------|
| Effective degradability, % 473 | 47,3 | AAT20, g/kg DM | 178 |
| Digestibility of RUP, % | 97 | PBV20, g/kg DM | 110 |
| AAT microbial, g/kg DM | 37 | NEI20, MJ/kg DM | 9,44 |
| AAT rumen escape, g/kg DM | 156 | | |
| AAT total, g/kg DM | 193 | | |
| PBV, g/kg DM | 107 | | |
| NEI, MJ/kg DM | 10,17 | | |
| FEm, pr. kg DM | 1,47 | | |
| Protected fat is present but as yet no value is available for the Nordic system. | | | |

Lactation Study Results

- Milk Yield and Composition



1998 J Dairy Sci 81:1036–1045.

Influence of nonenzymatically browned soybeans (SoyPreme) on ruminal fermentation and lactation performance of dairy cows.

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