

# NovaPro



NovaPro is a high energy, hot pressed **rumen** protected rapeseed expeller supplying similar quantity of rumen bypass protein as hi-pro soya with a significantly higher energy content (~10%) than rape seed meal due to its rumen friendly oil content.

The by-pass protein is of higher digestibility compared to other rumen protected rapeseed meal products as it is not subjected to hexane solvent extraction that reduces digestibility.

## Typical Analysis (on a dry matter basis)

| Dry matter (%) | Energy (MJ ME/kg DM) | Crude protein (%) | Oil (%) | NDF (%)           | Starch (%) | Sugar (%) | DUP (%) |
|----------------|----------------------|-------------------|---------|-------------------|------------|-----------|---------|
| 89             | 13.25                | 32.6              | 12.4    | 35.0 <sup>#</sup> | 7.1        | 7.4       | 18.0    |

<sup>#</sup> The production process creates a false analytical value 26% should be used for rationing purposes

## What are you trying to achieve?

| Need                              | Feature                                                                                                                                                                                       | Benefit                                                                                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drive intakes                     | A highly palatable product that provides an excellent source of high-quality rumen bypass protein, with an amino acid balance that is superior to soya for supporting milk protein synthesis. | Increased milk protein synthesis supported by increased dry matter intake – meeting the ruminants requirements for DUP with a lower crude protein ration which improves overall protein efficiency. |
| Reduce feed costs                 |                                                                                                                                                                                               |                                                                                                                                                                                                     |
| Increase milk yield               |                                                                                                                                                                                               |                                                                                                                                                                                                     |
| Reduce reliance on soya bean meal | Very similar DUP content as hi-pro soya meal                                                                                                                                                  | Allows a dairy and growing rations to reduce or remove hi-pro soya saving feed costs                                                                                                                |
| Flexibility in feeding            | Dry and free-flowing meal                                                                                                                                                                     | Simplifies feeding and storage                                                                                                                                                                      |

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



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## Complementary Concentrate Feeds

- **High starch feeds** e.g. cereals, maize meals, confectionary and bakery products.
- **Low protein feeds** e.g. cereals, soya hulls and sugar beet products.
- **Rumen degradable protein sources** e.g. Distillery syrups, high protein molasses products and DDGS
- **Rumen bypass protein boosters** e.g. SoyPass
- **Rumen bypass fats** e.g. Golden Flake, Butterfat Extra

## Recommended daily feed rates (per head basis)

NovaPro can be fed, top dressed, used individually or as part of a blend or TMR.

|                      |                                        |
|----------------------|----------------------------------------|
| Milking Cows         | Up to 4 (typically 2)kg                |
| Dry Cows             | Up to 2.0 kg                           |
| Replacement Heifers  | Up to 2 kg and up to 25% of the DMI    |
| Calves (to 12 weeks) | Up to 0.75 kg and up to 20% of the DMI |
| Growing Cattle       | Up to 2 kg and up to 25% of the DMI    |
| Finishing Cattle     | Up to 3 kg and up to 30% of the DMI    |
| Suckler Cows         | Up to 2 (typically 1)kg                |
| Ewes and Rams        | Up to 0.5 (typically 0.25)kg           |
| Hoggets and Lambs    | Up to 0.5kg and up to 25% of the DMI   |

DMI = dry matter intake

## Availability, handling and storage

NovaPro is available all year round, UK wide and is delivered direct to farm in bulk.

NovaPro should be stored out of direct sunlight, in a cool, dry and well-ventilated environment and should be used within three months of delivery.

## Method of production

NovaPro is produced at a new state of the art rapeseed expelling facility, where whole rape seeds are heated and pressed to expel the oil, after which the residual cake is treated using a unique and safe patented process which increases the level of rumen bypass protein. The process takes advantage of naturally occurring wood sugars which, when mixed with the rapeseed cake under gentle steam treatment, binds to part of the protein, protecting it from degradation in the rumen.

During production of NovaPro, careful process control procedures ensure that the proteins become highly rumen undegradable but retain, post rumen, high intestinal digestibility, similar to untreated soya bean meal. Hexane solvent, which has been shown to reduce protein digestibility, is not used in the manufacturing of NovaPro. Unlike conventional rapeseed extract where hexane is applied during the recovery phase of the process.



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## Quality Assurance

NovaPro is a FEMAS assured (or a recognised equivalent) fully traceable, product, marketed by Trident Feeds – a UFAS accredited merchant. NovaPro is listed under Rapeseed expeller feed number 2.14.6 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.

## NovaPro

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

|                      |          |                |                  |          |      |
|----------------------|----------|----------------|------------------|----------|------|
| Dry matter           | %        | 89.0           | Calcium          | g/kg     | 7.2  |
| Oil A                | %        | 11.0           | Magnesium        | g/kg     | 4.8  |
| Oil B                | %        | 12.5           | Phosphorus       | g/kg     | 9.5  |
| Crude protein        | %        | 29.0           | Potassium        | g/kg     | 11.0 |
| Crude protein: DM    | %        | 32.6           | Salt             | g/kg     | 1.5  |
| Fibre                | %        | 12.0           | Sodium           | g/kg     | 0.2  |
| Ash                  | %        | 6.5            | Copper           | mg/kg    | 5.0  |
| ME* – <i>in vivo</i> | MJ/kg DM | 13.25          | Manganese        | mg/kg    | 55.0 |
| NDF                  | %        | 31.2<br>(23.0) | Selenium         | mg/kg    | 0.08 |
| Starch               | %        | 6.3            | Zinc             | mg/kg    | 50.0 |
| Sugar                | %        | 6.5            | Saturates        | % of oil | 6.0  |
| ERDP-FiM*            | % @ 6%   | 10.3           | Monounsaturates  | % of oil | 68.0 |
| DUP-FiM*             | % @ 6%   | 17.0           | PUFAs            | % of oil | 26.0 |
| DUP digestibility    | %        | 80.0           | Long chain PUFAs | % of oil | 0.0  |
| sDM                  |          | 0.201          | Lysine           | % of CP  | 5.40 |
| aDM                  |          | 0.444          | Methionine       | % of CP  | 2.00 |
| bDM                  |          | 0.454          | Cysteine         | % of CP  | 2.40 |
| cDM                  |          | 0.026          | Histidine        | % of CP  | 2.80 |
| sN                   |          | 0.116          | Threonine        | % of CP  | 4.50 |
| aN                   |          | 0.297          |                  |          |      |
| bN                   |          | 0.557          |                  |          |      |
| cN                   |          | 0.030          |                  |          |      |

All s, a, b and c fractions were assessed at the University of Nottingham 2016



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