

FRUTAFEED®

Feed material

4.4.9. **Chicory inulin.** Inulin is a fructan extracted from roots of *Cichorium intybus* L.; raw chicory inulin may contain up to 1% sulphate and may contain up to 0.5% sulphite. Commission regulation (EU) N° 68/2013 of 16 January 2013 on the Catalogue of feed materials.

Description

Frutafeed® is a mixture of poly and oligosaccharides extracted by diffusion from chicory roots. This fibre is composed of molecules with a length of about 7 units' fructose and ending on a glucose unit.

A. FUNCTION

Monogastrics can metabolise this carbohydrate in the large intestine, but not in the stomach. Frutafeed® (inulin) is fermented by the acidophilic flora. The products of this fermentation are the bacterial mass and the free fatty acids which are absorbed.

Frutafeed® will selectively stimulate the growth of Bifidobacterium, a bacterium which improves the immune system.

The addition of Frutafeed®, effects on the microflora:

- Regulates the volume of the faecal mass and the intestinal transit;
- Acidifies the faecal mass and elevates the short chain fatty acids (esp. propionic acids);
- Increases the faecal nitrogen excretion and consequently decreases kidney nitrogen excretion. High ammonia concentrations in the large intestine influence badly healthiness and disturb the activity of the cellular divisions of the intestinal walls. Inulin decreases this ammonia content of the large intestine;
- Improves absorption of minerals (Ca, Mg, etc.) in the large intestine;
- Stimulates the immune system by developing the beneficial bacteria to become the predominant genus in faeces, and consequently by reducing the pathogen bacteria.

B. TECHNICAL INFORMATION

Chemical composition: formed by molecules whose chains contain an average of 7 fructose units and a unit of glucose.

Dry matter content (DM):	.....	≥ 95%
Inulin (s/DM):	.....	≥ 85.5% (95% DM x 90% inulin)
Content in ash:	.....	≤ 0.5%
Carbohydrates (HC):	.....	minimum 95% s/DM
- Free sugars s/HC:	.....	maximum 10.0%
- Soluble fiber (inulin):	.....	minimum 90.0%

Additional features:

Use:	.....	For use in dry and wet feed
Appearance:	.....	White powder
Flavour:	.....	Slightly sweet
Size of particle:	.....	<700 µm
Caloric content:	.....	± 1 kcal/g DM

DOSAGE

For monogastrics and pets, of the order of 0.1 to 1% of Frutafeed® in the complete diet.

PACKAGING AND STORAGE CONDITIONS

Standard packaging: ... 20 kg multilayer paper bags on a 960 kg pallet of net weight and dimensions (1.2x1.2x1.8 m)

Storage: The product absorbs humidity, so it must be stored in its original bag, unopened and in a dry environment. Risk of alteration due to exposure to 150°C for 15 minutes.

GMO INFORMATION

In recognition of EU Directives 1829/2003/EC and 1830/2003/EC, we inform that this product, to the best of our knowledge and belief:

- Is not produced from genetically modified organism.
- Does not contain ingredients produced with genetically modified organism.
- Does not require labelling as containing or being produced from/with materials/processing aids containing genetically modified organism as defined in the above mentioned directives.

Therefore, no labelling according the regulations (EC) 1829/2003 and 1830/2003 will be needed necessary.

This technical data sheet should be understood as an indicative guide and has been drawn up based on information in good faith and considered reliable. The product must not be used for purposes other than those specified. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established in the legislation.

Data sheet

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