



# TRIGEIA

## Trigovit® Tex

### for plant-based chew sticks

Trigovit® Tex textured proteins are protein sources based on the renewable raw material wheat for the production of plant-based chew sticks. They offer pet food producers a plant-based alternative to conventional meat products while improving their functional properties.

### General properties

- Purely plant-based source of protein (up to 75 % protein content)
- Meat-like texture and unique crunchiness
- Neutral in odour and flavour
- Suited as a carrier for fragrances and flavourings
- Different forms and colours possible
- Preferred use after rehydration (swelling and water absorption)
- Simple processing, thanks to short soaking times
- High water absorption
- 100 % GMO-free

### Benefits

- Improvement of nutritive factors
- High process stability (also in autoclaves)
- Reproduction of many types of meat textures
- High cohesion and adhesion capacity
- Uncomplicated storage at room temperature

### Field of application

The demand for alternative proteins in pet food is continuously increasing. The extruded wheat protein Trigovit® Tex is the ideal raw material for plant-based protein snacks, improving both the nutritive and functional aspects such as the flexibility of the chew stick.

Rehydration gives the protein its meat-like structure, which makes the end-consumer products indistinguishable from the conventional meat-based product. Trigovit® Tex is particularly suitable for cold-extruded snacks because, in addition to its authentic texture, it also has excellent binding properties that allow it to be shaped without the addition of further binding agents. The end-consumer products are convincing in terms of crunchiness and feel, on a purely plant-based basis. The dry Trigovit® Tex is also uncomplicated in storage and handling and can therefore also be used in simple manufacturing processes.



Production of purely plant-based chew sticks with protein

## without binding agents

#### Nutritional values (per 100 g/ in g)

Energy	1211 KJ
Fat	1.3
-saturated fatty acids	0.1
Carbohydrates	25.4
Protein	44.3

The nutritional values were based on an end product with 18 % moisture.



Trigovit® Tex Granules MBS 111: The extruded wheat protein is the main plant-based component of plant-based chew sticks.



Plant-based chew sticks with Trigovit® Tex can be bent up to 25 % more than conventional chew sticks

#### Extrusion of raw materials for pet food

Extrusion is a thermo-mechanical refinement process in which the raw material to be extruded, such as proteins, is pressed through a previously-defined opening, using pressure and temperature. Trigovit® Tex can be produced in a variety of different forms and colours and can also be adapted to comply with individual requirements. The protein contained also enhances the nutritional profile of the end-consumer products.



More information on our website.

[crespeldeitersgroup.com/trigeia](https://crespeldeitersgroup.com/trigeia)