



# PROTHY<sup>®</sup> 21

## WHEAT PROTEIN HYDROLYSATE

### DATA SHEET

#### DESIGNATION

The grain of wheat contains up to 14 % protein. Prothy<sup>®</sup> 21 is extracted from this protein part and has an amino acid profile identical to that of whole protein, hydrolysed and spraydried without any carrier. Hydrolysis consists in cutting proteins with enzymes in order to reduce the molecular weight and to facilitate bio-availability. Prothy<sup>®</sup> 21 is in the format of polypeptides, and is special in being composed of more than 35% glutamine and glutamic acid, and 10% proline direct precursors of glutamine, an amino acid essential for muscular rebuilding and in immunological prevention.

#### SPECIFICATIONS

Appearance:	Beige to light brown powder
Taste:	Bland
Water content:	6 % max.

#### ANALYSIS (dry mat.)

Protein (Nx6.25):	85 to 87%
Glutamine and Glutamic acid (/100g of protein):	> 35%
Carbohydrates:	6 to 10%
Fat:	1 to 5%
Solubility:	85 to 95% in water / insoluble in oil
pH in a 5% Solution:	6 to 7
Molecular weight:	< to 50 000 Dalton
Ashes:	< 1%

#### MICROBIOLOGY

Total Plate Count:	< 5000 u/g
Yeast/Moulds:	< 200 u/g

#### PACKAGING

25 kg cardboard drums.

#### STORAGE

Hygroscopic product, store in a dry place.  
Best used within: 24 months.

#### APPLICATIONS

- Hyper protein food supplements for muscular preservation as in old age.
- Raw wheat polypeptides, aromatised, vitaminised for muscular rebuilding and development, intensive training, stress.
- Glutamic acid is a neuro-mediator, it could improve cerebral functions and memory.
- Dietary supplements, Functional Foods & Beverages