



Product Information Sheet

Protease AT-FG

An *Enzyme Supplies* endo-protease for the protein and food functionality industries

Description

Protease AT-FG is a bacterial alkaline protease from *Bacillus licheniformis* that hydrolyses high molecular proteins to low molecular, water soluble peptides.

IUB-No.: 3.4.21.62

CAS-No.: 9001-92-7

Properties

Protease AT-FG has the following characteristics:

- a) liquid product
- b) brown colour with characteristic smell

Application

Protease AT-FG can be used at the following conditions:

pH value

Optimum: 9.0 – 10.0 Range: 7.0 – 10.5

Temperature

Optimum: 55 – 60°C Range: 30 – 65°C

Protease AT-FG can be used for viscosity reduction of protein containing solutions, and for modification of the functional properties of proteins. Potential applications are:

- Hydrolysis of plant and animal proteins
- Processing of foods
- Silver recovery from films
- Leather bating and de-hairing
- Detergents and cleaning agents

Dosage

The dosage depends on the reaction conditions such as substrate, protein content, pH value, temperature and the production process.

For first trials a dosage of 0.05 – 0.5% based on the protein content is recommended.

Specification

The product complies with the recommended specifications of the FAO/WHO's Joint Expert Committee on Food Additives (JECFA) and the Food Chemicals Codex (FCC) for food-grade enzymes.

The total viable counts are within the upper limit of 5×10^4 / g.

Packaging

Protease AT-FG is available in 25-kg PE cans.

Storage

Protease AT-FG can be stored at cool and dry conditions (6 – 10°C) in original packaging for 12 months.

Safety Handling

Avoid the formation of aerosol and dust of the product. Repeated inhalation of enzyme aerosol or dust may cause sensitisation and may cause allergic type reactions in sensitised individuals.

Proteases are irritating to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For detailed information please refer to the Material Safety Data Sheet (MSDS).

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