BIOTOUCH® ROC 250 LC

Description and Specification

2014.01.28
Rev. Nr. 00

Description

BIOTOUCH ROC 250 LC is an alkaline fungal protease enzyme produced using a genetically modified strain of a non-pathogenic fungus. The preparation is efficient in hydrolysing of proteinaceous material, like soiled fabrics. The enzyme product is especially a suitable component for liquid detergent formulations.

BIOTOUCH ROC 250 LC preparation is classified as protease with

- IUB-No.: EC 3.4.21.65
- CAS-No.:9001-92-7

Properties

BIOTOUCH ROC 250 LC is a clear, amber aqueous liquid with a density of approximately 1.0 - 1.1 g/ml.

Activity

BIOTOUCH ROC 250 LC contains a declared minimum activity of 230 000 BPU/ g. The protease activity is determined on casein substrate at 50ºC and pH 8.5. Detailed description of the method (B-040) is available on request.

Application

BIOTOUCH ROC 250 LC is a liquid protease preparation for detergents. It hydrolyses insoluble protein stains to soluble peptides and amino acids which can easily be removed from fabric. It is effective on common household stains such as milk, egg, cocoa, grass and blood stains. The key benefits of BIOTOUCH ROC 250 LC are:

- High performance over wide temperature and pH range
- Efficient at low temperature washing
- Very effective both in soft and hard water
- Excellent stability in liquid detergents

The preferred conditions for the laundry aplication are:

• Enzyme dosage	0.2 – 1.5 % of detergent weight
• pH of washing liquor	6 - 10
• Temperature	10 - 60ºC
• Treatment time	short or standar washing cycles

The recommended dosage will vary according to detergent formulations and washing conditions. The desired level of cleaning performance should be decided upon experimental results.

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Specification

PROPERTY	BIOTOUCH ROC 250 LC
Protease activity	≥ 230 000 BPU / g
Form	clear amber liquid
Solubility	soluble in water
pH	4.8 – 5.8
Density	1.0 – 1.1 g / ml
Total viable count	less than 50000 CFU / g
Coliforms	less than 30 CFU / g
Packing	25 kg plastic canister 1000 kg IBC container bulk in tankcar

Storage

Store BIOTOUCH ROC 250 LC below 25ºC or preferably below 10ºC to ensure the maximum shelf life. Extended storage or adverse conditions such as high temperature may lead to higher dosage requirement.

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 able to cause irritation of eyes and skin. Wear suitable protective clothing, gloves and eye/face protection. For further details on the safe handling of our products, please consult our safety data sheet (MSDS).

Technical Service and Marketing

AB Enzyme Oy is pleased to provide technical assistance related to the applications and the product. For more information please contact:

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