



Aum Enzymes
India's #1 Speciality Enzyme Products

CLEANZYME-L **Specialty Lipase**

BENEFITS

Enzymes are ecofriendly and biodegradable
 Enzyme based detergents are more efficient
 Enzyme based detergents are non corrosives, safe, cost effective.
 High activity and stability in alkaline pH range
 Broad substrate specificity
 Compatibility with oxidizing agents
 Compatibility with chelating agents
 Compatibility with surfactant

DESCRIPTION

Cleanzyme-L is lipase preparation produced by a selected strain of *Bacillus spp.* to be used in household laundry, dishwashing, industrial and institutional laundry detergent industry. Cleanzyme-L is high performance lipase enzyme for detergent industry

Due to hydrophobic nature of fatty stain are difficult to remove by washing. Lipase present in Cleanzyme-L capable of removing fatty stains such as fats, butter, salad oil, sauces cosmetic and the tough stains on collars and cuffs. The enzymes has broad substrate specificity promoting the hydrolysis of a wide range of various fats and oils and producing free fatty acids and glycerol which are easily dispersed or dissolve in the washing liquor.

PRODUCT SPECIFICATION:

Parameters	Optimal range	Operational range
Temperature	30°C to 65°C	30°C to 70°C
pH	8.0 to 11.0	7.00 to 12.00
Physical form	Liquid & Granule	
Enzymes types	Lipase	
Microbial source	<i>Bacillus species</i>	

PAKAGING

Enzymes products are available in 25 kilogram in jerry can for liquid products & HDPE fiber drum for Granule products. Special packaging is also available on request.

SAFETY

The product is produced under hygienic condition and is subject to stringent quality control

Toxicology

The product produced by GRAS microorganism and is classified as non toxic.

Biodegradability

Product is Biodegradable.

Handling precaution

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

Liquid enzyme products may create inhalable aerosols if splashed or vigorously stirred. Spilled product material should therefore be flushed away with water.

STORAGE:

Enzyme products should be stored in a cool dry place. When stored below 35°C products will maintain its declared activity for at least 24 months. The enzyme preparation should not be left in direct sunlight for extended periods. Liquid preparation should not be frozen.

REGULATORY INFORMATION:

EEC Classification

In concentration form, the liquid enzymes products are classified as “sensitizers by inhalation” under the terms of EEC directive 88/379.

TECHNICAL DATASHEET

[FOR CLEANZYME-L]

There are many factors that influence activity of Cleanzyme-L

- [1]Types of detergents and dosage
- [2]Moisture content of detergent
- [3] pH of detergent solution
- [4]Ionic strength of the detergent solution
- [5] Washing temperature
- [6]Mechanical Handling
- [7]Water hardness
- [8] Level of soiling
- [9]Type of textile

Below mention general guideline for dosage of Cleanzyme-L

Product	Dosage[%]
House hold detergent	0.1-0.3
Liquid detergent	0.2-0.4 %
Heavy duty detergent	0.8-1.0 %
Dishwashing detergent	2.5 %
Industrial detergent	3-5 %

TECHNICAL SERVICE:

AumEnzymes technical service laboratory shall be pleased to provide more information covering specific applications for all products or discuss any practical problem which many occur in the industry.

Technical datasheet given with each product are only given as usage guidelines, but tests should be carried out under local conditions to fix the optimum dosage for the machine type and conditions.

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