



Product Data Sheet

Lactase 2000L

An *Enzyme Supplies* beta-galactosidase enzyme preparation for the dairy & dietetics industry

Product Characteristics:

Declared Enzyme - Beta-galactosidase

Declared Activity - 2000 NLU/g

Side activities - The product contains no significant protease activity

Colour: Yellow to brown / clear to opalescent

Physical form: Liquid

Product Specification:

Chemical Properties

Activity	≥2000 NLU/g
pH	6.9-7.6
Glycerol	≥50% (w/w)
Heavy metals	≤30 ppm (as Pb)
Lead	≤5.0 ppm
Arsenic	3.0 ppm
Mercury	≤0.5 ppm
Cadmium	≤ 0.5 ppm

Microbiological properties

Standard plate count	≤100 in 1ml
Yeasts	≤10 in 1ml
Moulds	≤10 in 1 ml
Anaerobic sulphite-reducing bacteria	≤30 in 1 ml

Coliforms	≤1 in 1 ml
Salmonella	absent in 25 ml
<i>Staphylococcus aureus</i>	absent in 1 ml
<i>Eschericia coli</i>	absent in 25 ml
<i>Listeria monocytogenes</i>	Absent in 25ml
Antibiotic activity	absent by test
Mycotoxins	absent by test

The product complies with the recommended purity specifications for food-grade enzymes given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA) and the Food Chemical Codex (FCC).

Recommended Storage:

The product must be stored in the original sealed containers. The recommended storage temperature is 4-8°C. If kept under these conditions the shelf life is 24 months and the loss of activity is less than 5% per year.

The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperature or higher humidity may lead to a higher dosage requirement.

Safety and Handling Precautions

Enzymes are proteins. 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. The product may create easily inhaled aerosols if splashed or vigorously stirred. Spilled product may dry out and create dust. Spilled material should be flushed away with water. Avoid splashing. Left over material may dry out and create dust. Wear suitable protective clothing, gloves and eye/face protection as prescribed on the warning label. Wash contaminated clothes.

A Material Safety Data Sheet is supplied with all products.

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