

Native Bacillus sp. Monoglyceride Lipase

Cat. No. NATE-0455

Lot. No. (See product label)

Introduction

Description In enzymology, an acylglycerol lipase (EC 3.1.1.23) is an enzyme that catalyzes a chemical reaction

that uses water molecules to break the glycerol monoesters of long-chain fatty acids. This enzyme belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds. This enzyme

participates in glycerolipid metabolism.

Applications Useful for enzymatic determiantion of triglyceride

Synonyms EC 3.1.1.23; acylglycerol lipase; glycerol-ester acylhydrolase; monoacylglycerol lipase;

monoacylglycerolipase; monoglyceride lipase; monoglyceride hydrolase; fatty acyl monoester lipase;

monoacylglycerol hydrolase; monoglyceridyllipase; monoglyceridase

Product Information

Source Bacillus sp.

Appearance White powder

Form Freeze dried powder

EC Number EC 3.1.1.23

CAS No. 9040-75-9

Molecular Weight 20 kDa (gel filtration)

Activity

> 20 U/mg

Contaminants

Catalase < 0.5%

Isoelectric

pH 4.8±0.2

point

pH Stability 6.0-8.0 (65°C, 10 mins)

Optimum pH

6.0-8.0

Thermal

Stable at 65°C and below (pH 8.0, 10 mins)

stability

Optimum temperature

65°C (PIPES buffer)

Michaelis

Monolaurine 1.8 \times 10-4M

Constant

Unit

One unit is defined as the amount of enzyme which liberates 1 µmole of monoglyceride per minute at

Definition 37°C under the conditions specified in the assay procedure.

Storage and Shipping Information

Storage Storage at-20°C in the presence of a desiccant is recommended.

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