

TECHNICAL DATA SHEET

LIQUID
FERMASE CALB™ - 10L

FBL's Biotech Division - Inspired by life.

Fermase CALB™ 10L is a recombinant *Candida antarctica* lipase B enzyme expressed in yeast cells.

Product type **Fermase CALB™ 10L** is supplied as formulated; enzyme concentrate equilibrated with buffer and permitted preservatives.

Application Resolution of chiral alcohols and amines; synthesis of fatty-acid esters; versatile applications in organic synthesis; exhibit good to excellent stereoselectivity.

Description Yellowish green to green solution. Colour may vary from batch to batch and the colour intensity is not an indication of the product quality.

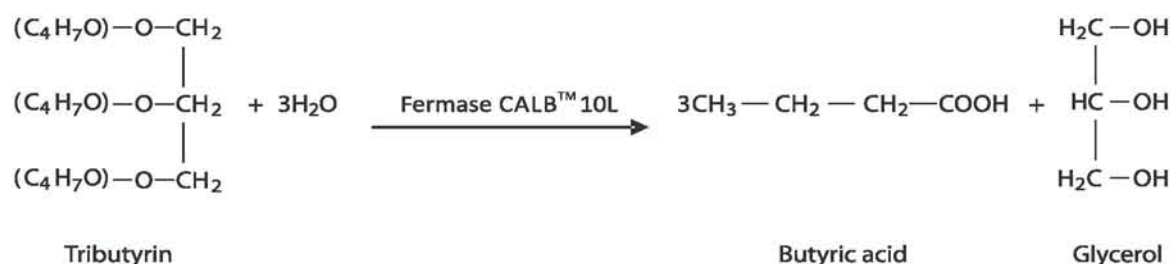
Enzyme activity NLT 10000 TBU/mL (Tributyryn hydrolysis).
NLT 4500 PLU/mL (Propyl laurate synthesis).

Unit definition *One TBU enzyme unit corresponds to amount of enzyme catalyzing the formation of 1 micromole of butyric acid at 40°C, pH 7.5 at 10 % (v/v) tributyrin concentration per minute per ml enzyme in the milieu of 100 mM sodium phosphate buffer.*

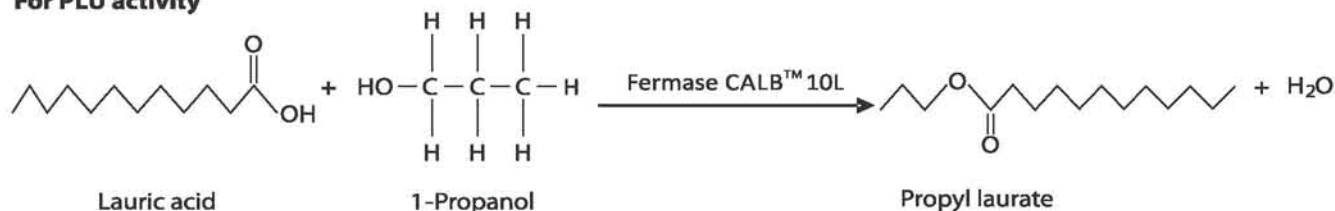
One PLU enzyme unit corresponds to amount of enzyme catalysing the synthesis of 1 micromole propyl laurate per minute per g of immobilized enzyme at 60°C from lauric acid and 1-propanol.

Reaction schematics

For TBU activity



For PLU activity



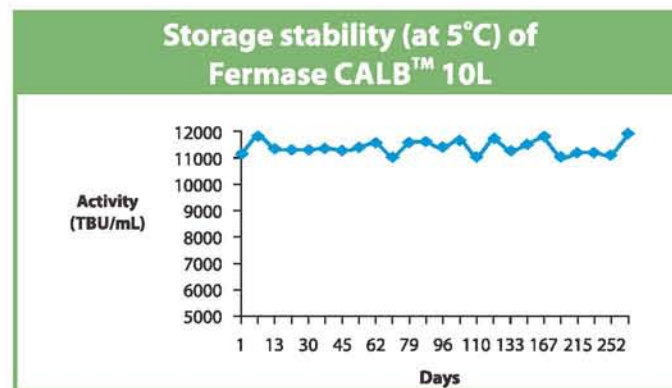
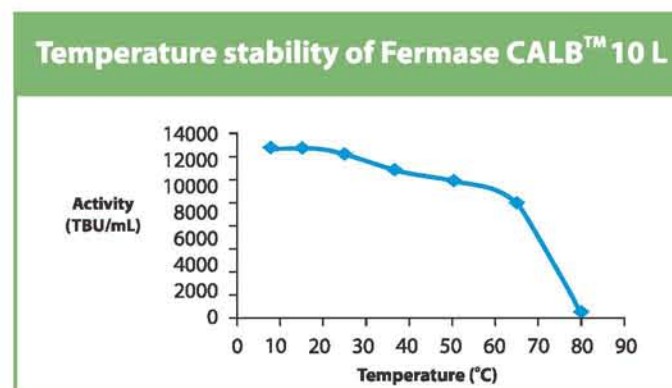
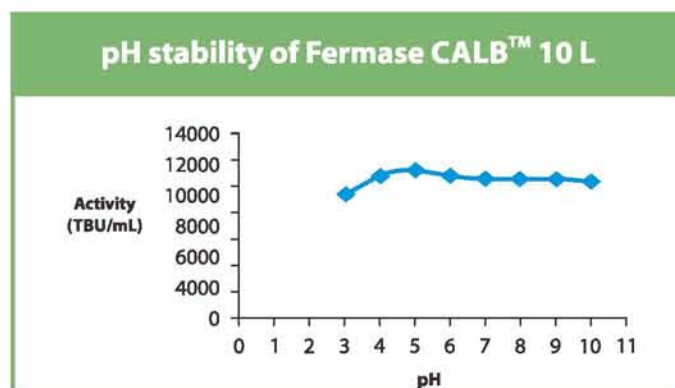


CANDIDA ANTARCTICA LIPASE B, RECOMBINANT

LIQUID

FERMASE CALB™ - 10L

Stability profile of Fermase CALB™ 10L



Advantages

- Higher activity
- Higher stability
- Broad application

Storage & product stability

Cool and dry conditions are recommended for storage. The recommended temperature for storing is between 5°C to 8°C. When stored under these conditions, the product will maintain its declared activity for at least 12 months.

Safety

Fermase CALB™ 10L is very safe to handle, as it does not generate any aerosols. Avoid direct contact with skin and eyes. Avoid forming aerosols, wash contaminated clothing and ensure sufficient ventilation.

Material support data

- Technical data sheet
- Certificate of analysis
- Material safety data sheet
- Protocols for assay methods

Packing size

Minimum pack size : 1 kg
Bulk pack size : 25 kg

Manufactured By:
fbl Fermenta Biotech Limited

'DIL' Complex, Ghodbunder Road, Majiwada, Thane(West)-400610, Maharashtra, India.
Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com