

Candida antarctica lipase B enzyme, Recombinant



LIQUID

BIOCATALYST CALB

10 L

TECHNICAL DATA SHEET

BIOCATALYST CALB 10 L is a recombinant *Candida antarctica* lipase B enzyme expressed in *Pichia pastoris* cells

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

Application Hydrolysis of esters, Synthesis of esters and amides, Transesterification reaction. Chirally selective for alcohols and amines, exhibits good to excellent stereoselectivity. Versatile application in organic chemistry.

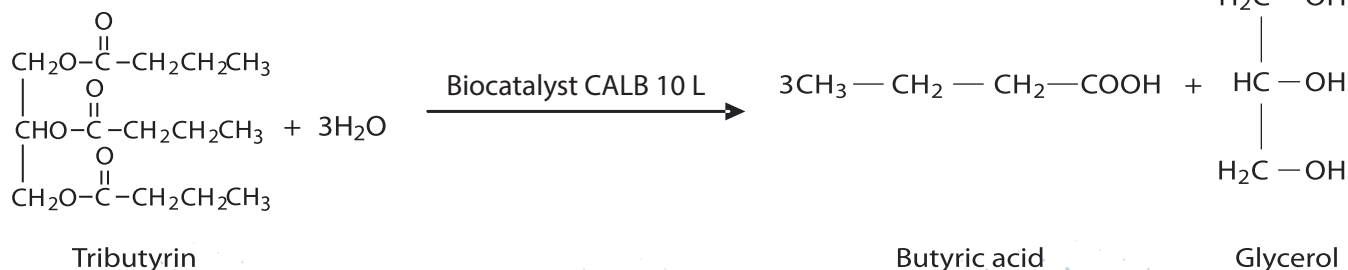
Description Yellowish green to green solution. Colour may vary from batch to batch and the colour intensity is not an indication of the product quality.

Enzyme activity NLT 10,000 TBU/mL (Tributyryn hydrolysis).

TBU Unit definition Amount of enzyme catalyzing the formation of 1 μmol of butyric acid at 40°C, pH 7.5 at 10% (v/v) Tributyryn concentration per minute per mL enzyme in the milieu of 100 mM sodium phosphate buffer pH 7.5.

Reaction schematics

For TBU activity

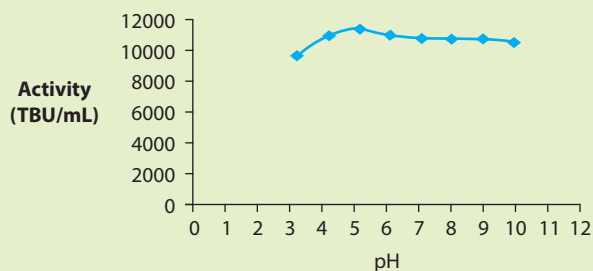


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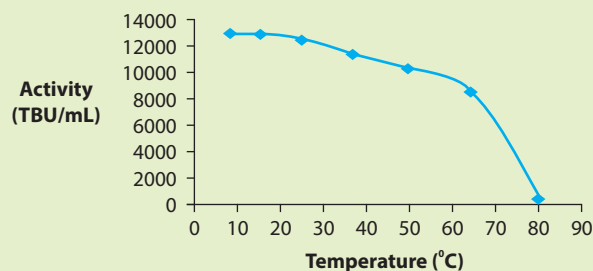


BIOCATALYST CALB 10 L Profile

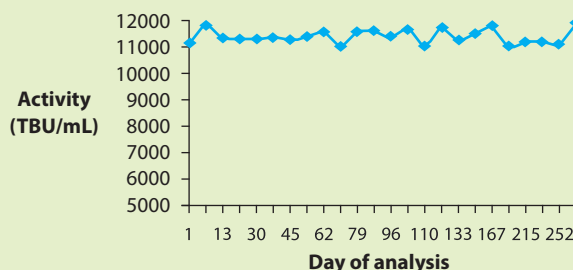
pH stability of BIOCATALYST CALB 10 L



Temperature stability of BIOCATALYST CALB 10 L



Storage stability (at 5°C) of BIOCATALYST CALB 10 L



Advantages

- High activity
- High stability

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

BIOCATALYST CALB 10 L 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
- Protocol for assay method

Packing size

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



Manufactured by :

Fermenta Biotech Limited

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