



Product Information

Labiase

from *Streptomyces fulvissimus* TU-6

Product Number **L 1414**

Storage Temperature 2–8 °C

Product Description

Labiase is an enzyme preparation that lyses the cell walls of many lactic acid bacteria. The enzyme is isolated from *Streptomyces fulvissimus* TU-6. It is used to analyze intracellular enzymes and protoplasts, study cell wall structure, and isolate plasmid DNA from many lactic acid bacteria.

Labiase is supplied as a lyophilized powder containing lactose.

Activity: >10 units/g solid (β -N-Acetyl-D-Glucosaminidase)

Unit Definition: One unit will release of 1 μ mole of p-nitrophenol from p-nitrophenyl N-acetyl- β -d-glucosaminide per minute at 37 °C, pH 4.0.

Other Activities Contained: Lysozyme and endopeptidase

Storage/Stability

Lyophilized powder is stable for at least 1 year when stored at 2–8 °C.

Specificity

Lysis of lactic acid bacterium cells by Labiase

Tested Strain	Lysis Rate (%)
<i>Leuconostoc mesenteroides</i> IFO 3832	92.8
<i>Leuconostoc lactis</i> IFO 12455	99.6
<i>Streptococcus faecalis</i> IFO 3971	96.5
<i>Lactobacillus acidophilus</i> IFO 13951	97.9
<i>Lactobacillus plantarum</i> IAM 1041	96.8
<i>Lactobacillus casei subsp. casei</i> IFO 3533	59.4
<i>Lactobacillus casei subsp. ramnosus</i> IAM 1118	91.8
<i>Lactobacillus brevis</i> IFO 3345	95.6
<i>Lactobacillus fermentum</i> IFO 3071	70.4
<i>Lactobacillus sp. (buchneri)</i> IFO 3961	89.4
<i>Lactobacillus fructivorans</i> IFO 13954	96.9
<i>Lactobacillus delbrueckii subsp. bulgaricus</i> JCM 1002	97.7
<i>Lactobacillus delbrueckii subsp. delbrueckii</i> JCM 1012	92.0
<i>Lactobacillus helveticus</i> JCM 1120	98.7
<i>Lactobacillus helveticus</i> JCM 1005	84.5
<i>Lactobacillus kefir</i> JCM 5818	93.0
<i>Lactobacillus sanfrancisco</i> JCM 5818	82.1
<i>Bifidobacterium bifidum</i> JCM 1255	62.9
<i>Streptococcus salivaris subsp. thermophilus</i> IFO 13957	94.0
<i>Streptococcus mutans</i> IFO 5705	73.9

AJA/PHC/EWK 01-08-02

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