

Product Name/Description: Lacto-N-biosidase
Cat. #: 4456
Lot #: Specified on product label
Storage Conditions: -20 degrees C
Expiration Date: Specified on product label or package

Package Size: 100 µU

Package Contents: 1. Lacto-N-biosidase 1 µU/µl 100 µl

Product Documents: Documents for Takara Bio products are available for download at www.takara-bio.com

Source: Streptomyces sp. 142

Unit Definition: One unit of the enzyme is defined as the amount that produce 1 µmol of PA-lactose from PA-lacto-N-tetraose in a minute at 37°C (pH 5.5).

Quality Control Data:

Protease contamination test:

No protease activity was detected in this enzyme when 10 µl of this enzyme was incubated with 4 nmol of oxidized insulin B chain in 10 µl of 200 mM sodium acetate buffer (pH 5.5) for 16 hours at 37°C and analyzed by HPLC.

Endoglycosidase and exoglycosidase contamination test:

1) When exonuclease activities in this enzyme were assayed using 1.1 mM of each of several kinds of p-nitrophenyl glycosides as a substrate, the activities of β-galactosidase and α-mannosidase were not detectable, each of the activities of α-fucosidase, β-glucosidase, and β-mannosidase was lower than 0.005% of lacto-N-biosidase activity, the activity of α-galactosidase was lower than 0.02% of lacto-N-biosidase activity, the activity of β-N-acetylhexosaminidase was lower than 0.05% of lacto-N-biosidase activity.

2) When the activities of exoglycosidase and endoglycosidase in this enzyme were assayed using 2 µM of each of several kinds of PA-Sugar Chain as a substrate, each of the activities of α-galactosidase, β-galactosidase, α-glucosidase, β-N-acetylhexosaminidase, α-N-acetylgalactosaminidase, α-mannosidase, sialidase, and endo-β-N-acetylglucosaminidase was not detectable, the activity of α-fucosidase was lower than 0.01% of lacto-N-biosidase activity, the activity of β-glucosidase was lower than 0.15% of lacto-N-biosidase activity.

It is certified that this product meets above specifications.

Manager, Quality Assurance
TAKARA BIO INC.

Safety Information :

Please refer to our website for safety information :

<http://www.takara-bio.com>

Notice To Purchaser :

This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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