

# Certificate of analysis

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**Product Name/Description:**  $\alpha$ -1,3/4-L-Fucosidase  
**Cat. #:** 4453  
**Lot #:** Specified on product label  
**Storage Conditions:** 4 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 100  $\mu$ U

**Package Contents:** 1.  $\alpha$ -1,3/4-L-Fucosidase 1 mU/ml 100  $\mu$ U

**Source:** Streptomyces sp.142

**Unit Definition:** One unit of the enzyme is defined as the amount that produces 1  $\mu$ mol of PA-lacto-N-neotetraose from PA- lacto-N-fucopentaose III in a minute at 37°C at pH 6.0.

**Quality Control Data:**

## Protease contamination test:

No protease activity was detected in this enzyme when 10  $\mu$ U of this product was incubated with 4 nmol oxidized insulin B chain in 20  $\mu$ l of 150 mM phosphate buffer (pH 7.5) for 16 hours at 37°C and analyzed by HPLC.

## Exoglycosidase contamination test:

When exonuclease activities in this enzyme were assayed using 100 nmol of each of several kinds of p-nitrophenyl glycosides as a substrate, the activities of  $\alpha$ -galactosidase,  $\beta$ -galactosidase,  $\beta$ -N-acetylglucosaminidase,  $\alpha$ -mannosidase, and  $\beta$ -xylosidase were not detected.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department of Takara Bio Inc.

**Notice To Purchaser:**

Please refer to the website.

**Product Documents, Patent Markings, Trademarks, & Safety Information:**

Refer to website for availability to download or contact your local office:  
[www.takara-bio.co.jp](http://www.takara-bio.co.jp) (Japanese)  
[www.takarabio.com](http://www.takarabio.com) (English)

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