

# Certificate of analysis

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**Product Name/Description:** rEGCase II  
**Cat. #:** 4460  
**Lot #:** Specified on product label  
**Storage Conditions:** -20 degrees C  
**Expiration Date:** Specified on product label or package

**Package Size:** 100 mU

**Package Contents:** 1. rEGCase II 2 mU/ $\mu$ l 100 mU

**Source:** Escherichia coli carrying the plasmid encoding EGCase II from Rhodococcus sp.

**Unit Definition:** One unit(U) of the enzyme is defined as the amount that catalyzes the production of reducing sugar equivalent to 1  $\mu$ mol of glucose from GM1 in a minute (at 37°C and pH 5.0).

**Quality Control Data:**

## Sphingomyelinase contamination test:

No sphingomyelinase activity in this product was detected as judged by the absorbance at 410 nm after 4 mU of this product was incubated with 300 nmol of HNP (2-N-hexadecanoylanimo-4-nitrophenyl-phosphorylcholine) at pH 6.0 for 16 hrs at 37°C and colored by adjusting pH.

## Exoglycosidase contamination test:

No exoglycosidase activity in this product was detected as judged by HPLC analysis after 4 mU of this product was incubated with 20 pmol of a pyridylamino oligosaccharide for the substrate of each glycosidase at pH 6.0 for 16 hrs at 37°C.

## Protease contamination test:

No protease activity in this product was detected as judged by the absorbance at 574 nm after 4 mU of this product was incubated with 40  $\mu$ g of Resorufin-labeled casein at pH 6.0 for 16 hrs at 37°C and acid-soluble component in the reactant was colored by adjusting pH.

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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