

## Certificate of analysis

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**Product Name/Description:** SCDase (Sphingolipid ceramide N-deacylase)

**Cat. #:** 4462

**Lot #:** Specified on product label

**Storage Conditions:** -20 degrees C

**Expiration Date:** Specified on product label or package

**Package Size:** 250 mU

**Package Contents:** 1. SCDase 5 mU/ $\mu$ l 250 mU

**Note:** Storage condition: Store at or below -20°C until use. Once it thawed, it is recommended to dispense the solution and store at -20°C. Repeated freeze-thaw cycles should be avoided.

**Unit Definition:** One unit of the enzyme was defined as the amount that catalyzes the hydrolysis of 1  $\mu$ mol of GM1 in a minute.

### Quality Control Data:

**Exoglycosidase contamination test:**

No exoglycosidase activity was detected by HPLC analysis when 20 mU SCDase is incubated with 20 pmol of a pyridylamino oligosaccharide for 16 hrs at 37°C, in 10  $\mu$ l of buffer, pH 6.0.

**Protease contamination test:**

No protease activity was detected after incubation of 50 mU SCDase with 40  $\mu$ g of casein labeled with resorufin for 16 hrs at 37°C, in 40  $\mu$ l of buffer, pH 6.0.

**Sphingomyelinase contamination test:**

No sphingomyelinase activity was detected after incubation of 20 mU SCDase with 15 nmol of TNPAL-sphingomyelin for 16 hrs at 37°C, in 55  $\mu$ l of buffer, pH 6.0.

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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