

# Certificate of analysis

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|----------------------------------|--|---------|-----|
| <b>Product Name/Description:</b> | α1,2-L-Fucosidase  |         |     |
| <b>Cat. #:</b>                   | 4451   |         |     |
| <b>Lot #:</b>                    | Specified on product label   |         |     |
| <b>Storage Conditions:</b>       | -20 degrees C  |         |     |
| <b>Expiration Date:</b>          | Specified on product label or package  |         |     |
| <b>Package Size:</b>             | 2 U  |         |     |
| <b>Package Contents:</b>         | 1. α1,2-L-Fucosidase   | 20 U/ml | 2 U |
| <b>Source:</b>                   | Corynebacterium sp.  |         |     |
| <b>Unit Definition:</b>          | One unit of the enzyme is defined as the amount that releases 1 μmol of p-nitrophenol from p-nitrophenyl α-L-fucoside in a minute at 37°C at pH 8.5. |         |     |

## Quality Control Data:

### Protease contamination test:

No protease activity was detected in this enzyme when 2 mU of this enzyme was incubated with 4 nmol of oxidized insulin B chain in 0.15 ml of 100 mM Tris-HCl buffer (pH8.0) for 16 hours at 37°C and analyzed by HPLC.

### Endoglycosidase contamination test:

No endoglycosidase activity in this enzyme was detected when 50 mU of this enzyme was incubated with 100 pmol of pyridylamino oligomannose type sugar chain (M6-PA) in 10 μl of 100 mM sodium acetate buffer (pH5.0) for 16 hours at 37°C and analyzed by HPLC.

### Exoglycosidase contamination test:

When exonuclease activities in this enzyme were assayed using 500 nmol of each of several kinds of p-nitrophenyl glycosides as a substrate, the activities of α-galactosidase, β-galactosidase, β-N-acetylglucosaminidase, α-mannosidase, and β-xylosidase were not detected.

### α1,3/4-L-Fucosidase contamination test:

No α1,3/4-L-fucosidase activity in this enzyme was detected when 600 mU of this enzyme was incubated with 20 pmol of pyridylamino lacto-N-fucopentaose II or III in 10 μl of 30 mM potassium phosphate buffer (pH7.0) for 63 hours at 37°C and analyzed by HPLC.

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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