

Certificate of analysis

Product Name/Description: Pyrophosphatase (inorganic)
Cat. #: 2450A
Lot #: Specified on product label
Storage Conditions: -20 degrees C
Expiration Date: Specified on product label or package

Package Size: 10 U

Package Contents: 1. Pyrophosphatase (inorganic) 0.1 U/ μ l 10 U

Source: Escherichia coli carrying a plasmid containing the gene for Saccharomyces cerevisiae (yeast) inorganic pyrophosphatase

Unit Definition: One unit is defined as the amount of enzyme that generates 1 μ mol of phosphate from inorganic pyrophosphate per minute at 25°C.

Quality Control Data:

Nuclease contamination tests:

Nuclease activities were not obviously detected in any of the following tests by agarose-gel electrophoresis.

- 1) Incubating 1 μ g of λ DNA-Hind III digest with one unit of the enzyme for 4 hours at 37°C.
- 2) Incubating 1 μ g of supercoiled pBR322 DNA with one unit of the enzyme for 4 hours at 37°C.
- 3) Incubating 1 μ g of λ DNA with one unit of the enzyme for 16 hours at 37°C.
- 4) Incubating 1 μ g of 16S, 23S rRNA with one unit of the enzyme for 4 hours at 37°C.

Phosphatase activity:

One unit of the enzyme had ≤ 0.0001 unit phosphatase activity.

(One unit of phosphatase is defined as the amount that produces 1 μ mol of p-nitrophenol per minute at 37°C from p-nitrophenylphosphate.)

dNTPase activity:

Incubating 10 nmol of dNTP mixture with one unit of the enzyme at 37°C for 1 hour liberated ≤ 50 nmol of inorganic phosphate.

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 (Japanese)
www.takarabio.com (English)

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