

PRODUCT NUMBER: Rham 142

LOT NUMBER: 382-0101-03



PROKARIA

Rhamnosidase A

I. PRODUCT INFORMATION

Product Information

25 U/mg total protein, at 60°C and pH 7.5 after 10 minutes. 5.4 U/mg powder

Store at 4°C

Contents: Freeze dried

Purity: ~50% estimated by SDS-PAGE.

Mode of Action

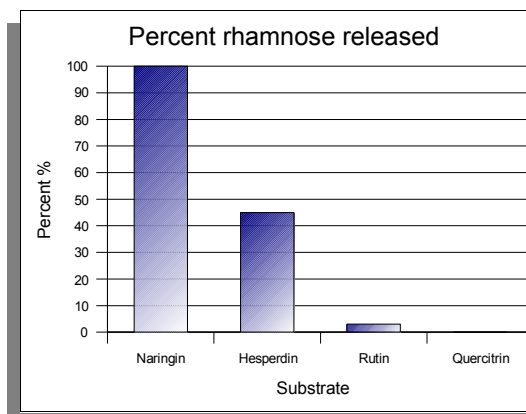
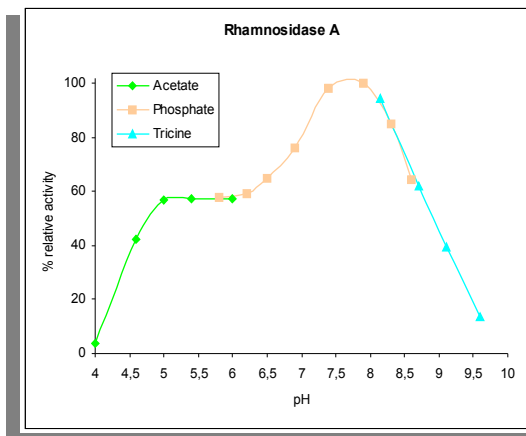
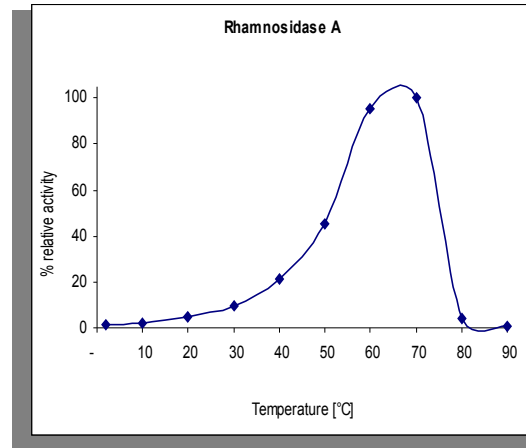
Hydrolysis of terminal non-reducing α -L-rhamnose residues in α -L-rhamnosides, Naringin, Hesperidin and Rutin.

Unit Definition

One unit (U) of enzyme activity is the amount that leads to the release of 1 μ mol of p-nitro-phenyl- α -L-rhamnopyranoside (pnpR) per minute

Unit Assay Conditions

Rhamnosidase activity was routinely determined in a 100mM KPO₄ pH 7.5 buffer for 10 minutes with 2.0mM final conc. of pnpR.



This product is produced by Prokaria Ltd. Reykjavik, Iceland.

- It is free of biological and chemical hazards
- This product is distributed for laboratory use only

CAUTION

- Nor for diagnostic use
- The safety and efficacy of this product in diagnostic or other clinical use has not been established

Safety handling – All enzymes bear the warning:

- HARMFUL ENZYME-PROTEIN
- Enzymes may cause sensitization by inhalation

Reference

- 1) Birgisson, H., Hreggvidsson, G. O., Fridjónsson, O. H., Mort, A., Kristjánsson, J. K., Mattiasson, B., Two new thermostable α -L-rhamnosidases from a novel thermophilic bacterium. *Enzyme and Microbial Technology* 2004;34:561-571.
- 2) Birgisson, H., Wheat, J. O., Hreggvidsson, G. O., Kristjánsson, J. K., Mattiasson, B. Immobilization of a recombinant *Escherichia coli* producing a thermostable α -l-rhamnosidase: Creation of a bioreactor for hydrolyses of naringin. *Enzyme and Microbial Technology* 2007;40:1181-1187

Limited use statement

The purchase of this product conveys to the buyer the non-transferable right to use the product and components of the product in research conducted by the buyer. The buyer cannot sell or otherwise transfer this product or its components to a third party and in particular, no rights are conveyed to the buyer to use the product or its components for commercial purpose

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