

# ThermoActive™ Rhamnosidase B – Rham 143

## Product information

Available as freeze dried powder, ~50% pure by SDS-PAGE.  
 Activity: 12 U/mg powder. Store at 4°C.

## Enzyme activity

Hydrolysis of terminal non-reducing  $\alpha$ -L-rhamnose residues in  $\alpha$ -L-rhamnosides containing Naringin and Hesperdin. No activity on Rutin.

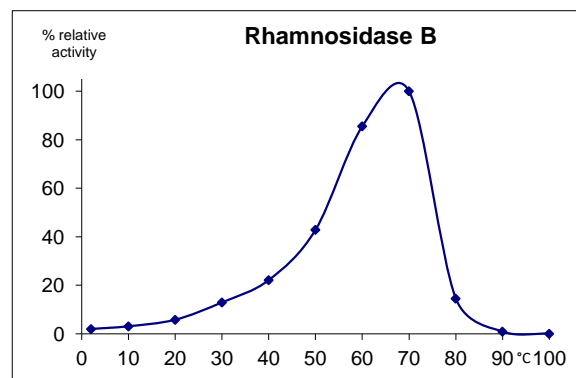
## Assay

Rhamnosidase activity was routinely determined at 60°C in a 100mM KPO4 pH 7.5 buffer for 10 minutes with 2.0mM final conc. of pnpR.

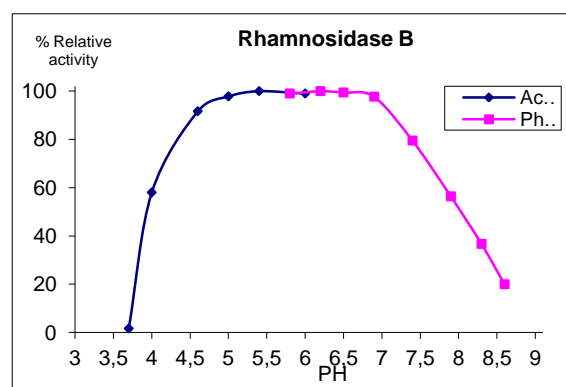
## Unit definition

One unit (U) of enzyme activity is the amount that leads to the release of 1  $\mu$ mol of p-nitro-phenyl- $\alpha$ -L-rhamnopyranoside (pnpR) per minute.

## Temperature optimum

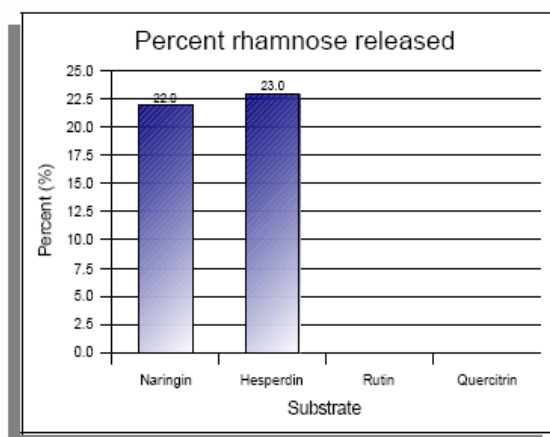


## pH optimum



## Reference

- 1) Birgisson, H., Hreggvidsson, G. O., Fridjónsson, O. H., Mort, A., Kristjánsson, J. K., Mattiasson, B., Two new thermostable  $\alpha$ -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  $\alpha$ -L-rhamnosidase: Creation of a bioreactor for hydrolyses of naringin. *Enzyme and Microbial Technology* 2007;40:1181-1187



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