

ThermoActive™ Rhamnosidase A – Rham142

Product information

Available as freeze dried powder, ~50% pure by SDS-PAGE.
 Activity: 5.4 U/mg powder. Store at 4°C.

Enzyme activity

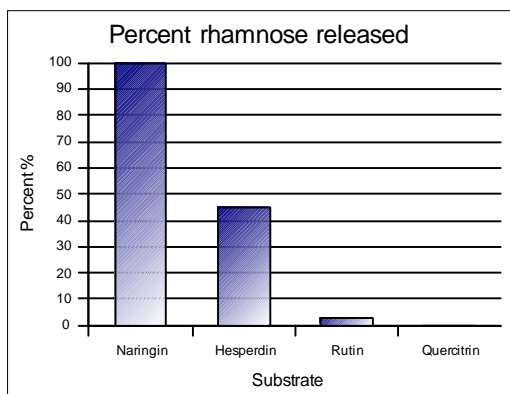
Hydrolysis of terminal non-reducing α -L-rhamnose residues in α -L-rhamnosides of Naringin, Hesperdin and Rutin.

Assay

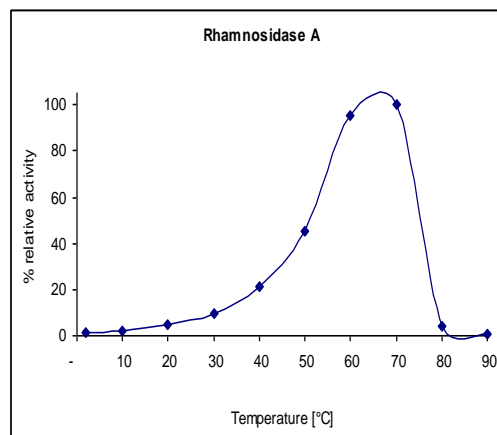
Rhamnosidase activity was routinely determined at 60°C in a 100mM KPO4 pH 7.5 buffer for 10 minutes with 2.0mM final conc. of pnpR.

Unit definition

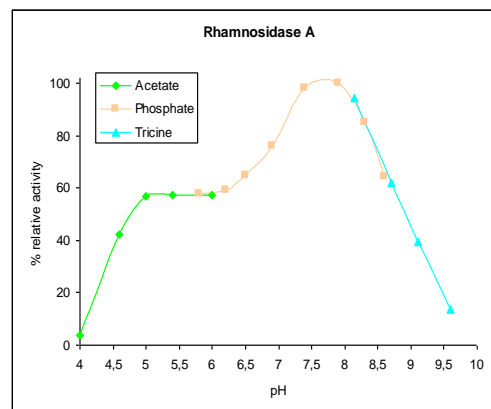
One unit (U) of enzyme activity is the amount that leads to the release of 1 μ mol of p-nitro-phenyl- α -L-rhamnopyranoside (pnpR) per minute.



Temperature optimum



pH optimum



References

- 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 usage statement on www.prokazyme.com