



## ThermoActive™ $\alpha$ -Galactosidase – Agal104

### Product information

Available as freeze dried powder, ~50% pure by SDS-PAGE.  
Activity: 43.4 U/mg at 65°C and pH 6.5.  
Store at a dry & cool place at 4°C.

### Enzyme activity

$\alpha$ -Galactosidase catalyzes the hydrolysis of  $\alpha$ -1.6 linked  $\alpha$ -galactose residues from oligosaccharides such as raffinose, melibiose, and stachyose or from polymeric substrates such as galactomannans.

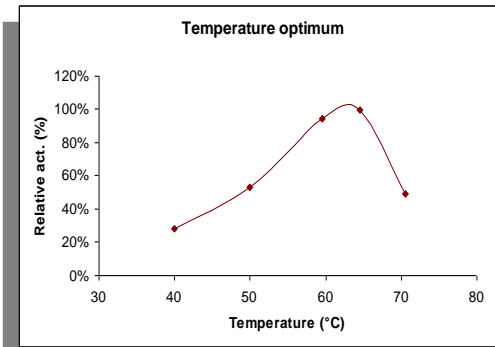
### Assay

$\alpha$ -Galactosidase activity was routinely determined in a 100mM KPO<sub>4</sub> pH 6.5 at for 2 minutes with 0.8 mg/ml final conc. of pNP- $\alpha$ -galactoside. The enzyme was pre incubated for 15 minutes at respective temperature before addition of substrate.

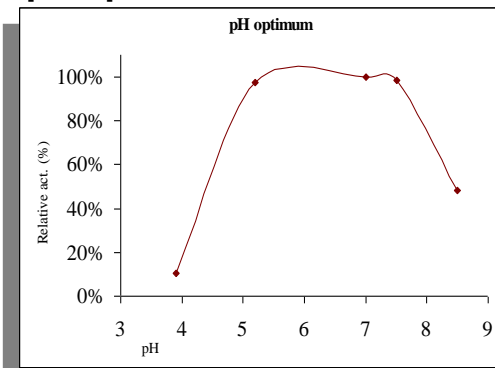
### Unit definition

One unit (U) is defined as the amount of enzyme which liberates 1  $\mu$ mol of p-nitrophenol per min from pNP- $\alpha$ -galactoside, under the given assay conditions.

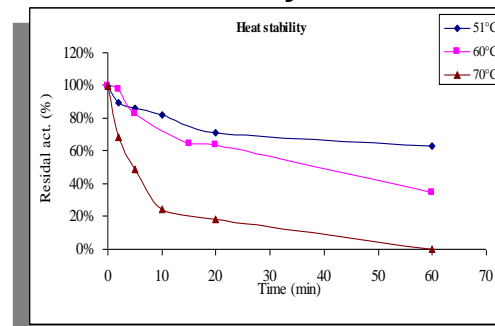
### Temperature optimum



### pH optimum



### Thermostability



Limited usage statement on [www.prokazyme.com](http://www.prokazyme.com)