



Uricase
Catalogue No. URIC-70-1721, 70-1721-01

Origin: *Arthrobacter globiformis*

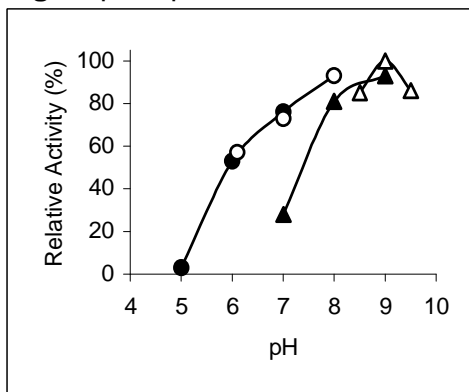
Specifications:

Appearance: White to off-white freeze dried powder
Activity: ≥ 10 U/mg powder at 25°C

Characteristics:

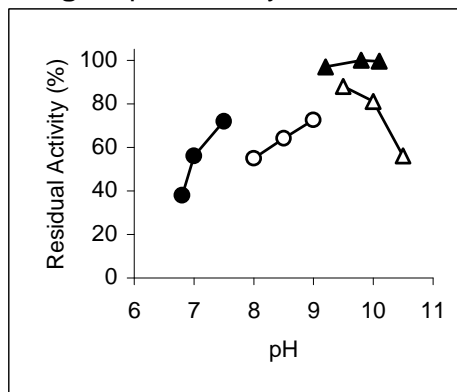
Molecular Weight:	117kDa (TSK gel G3000SWXL)	
Isoelectric point:	4.61	
K_m value:	1.3×10^{-4} M	
Optimum pH:	8.5-9.5	See Fig. 1
pH stability:	6.0-9.5 (37°C, 60 min.)	See Fig. 2
Thermal stability:	Stable at 50°C and below (pH 9.0, 10 min.)	See Fig. 3
Lyophilised stability:	1 year at -20°C	

Fig. 1 pH Optimum



● : 3,3-Dimethylglutarate-NaOH buffer
○ : Phosphate buffer
▲ : Tris-HCl buffer
△ : Borate buffer

Fig. 2 pH Stability

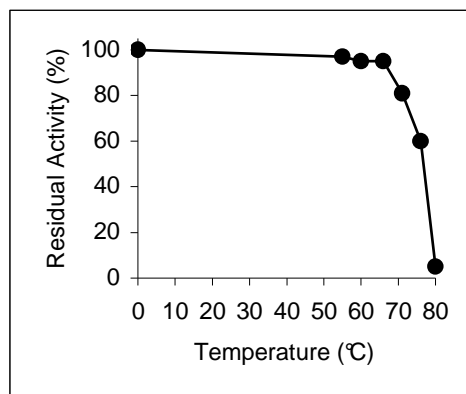


● : Phosphate buffer
○ : Tris buffer
▲ : Glycine buffer
△ : Borate buffer



Uricase (Catalogue No. 1721)

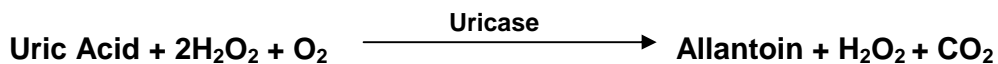
Fig. 3 Thermal Stability



pH 9.0, 10 min.
20mM Borate buffer

Assay Principle:

Uricase catalyses the following reaction:



As uric acid degrades there is a decrease in absorbance which can be measured spectrophotometrically at 293nm.

Unit Definition:

One unit of activity is defined as the amount of enzyme that will catalyse the oxidation of 1.0 micromole of uric acid per minute at 25°C under the standard assay conditions.

(See Analytical Method for full details)

International
50 Gibson Drive
Kings Hill, West Malling
Kent, ME19 4AF, UK
Phone: +44 (0) 1732 220022
Fax: +44 (0) 1732 220024/5

The Americas
31 New York Avenue
Framingham, MA
01701-9322
Phone: 800 332 1042
Fax: 800 762 6311