

ENZYMES

Uricase

ORIGIN *Arthrobacter globiformis*

CAT# URIC-70-1721
EC# 1.7.3.3

► SPECIFICATIONS

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

► APPLICATION

Useful in enzymatic determination of uric acid.

► 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.

► ASSAY PRINCIPLE

Uricase catalyses the following reaction:



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

► CHARACTERISTICS

Molecular Weight:	117kDa (TSK gel G3000SWXL)
Isoelectric Point:	4.61
K_m Values:	1.3 x 10 ⁻⁴ M
Optimum pH (Fig. 1):	8.5 - 9.5
pH Stability (Fig. 2):	6.0 - 9.5 (37°C, 60 minutes)
Thermal Stability (Fig. 3):	Stable at 50°C and below (pH 9.0, 10 minutes)

FIGURE 1: OPTIMUM pH

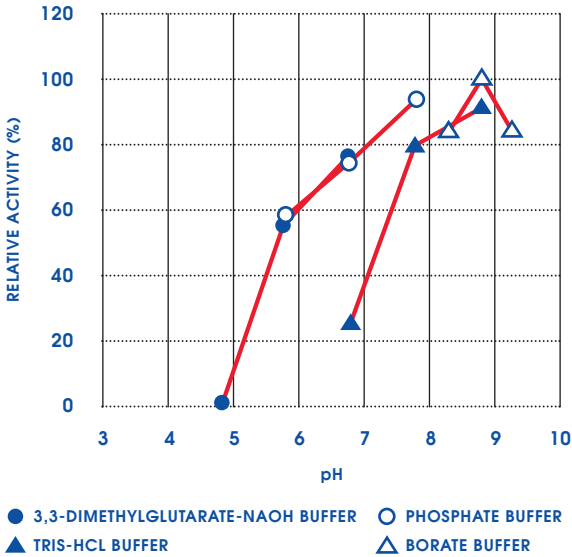


FIGURE 2: pH STABILITY

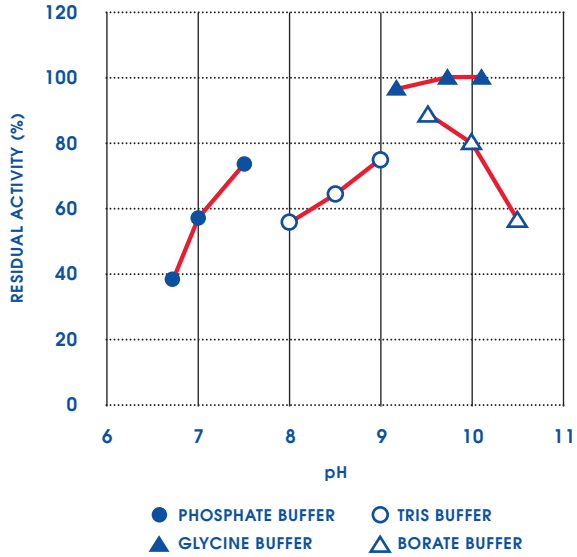
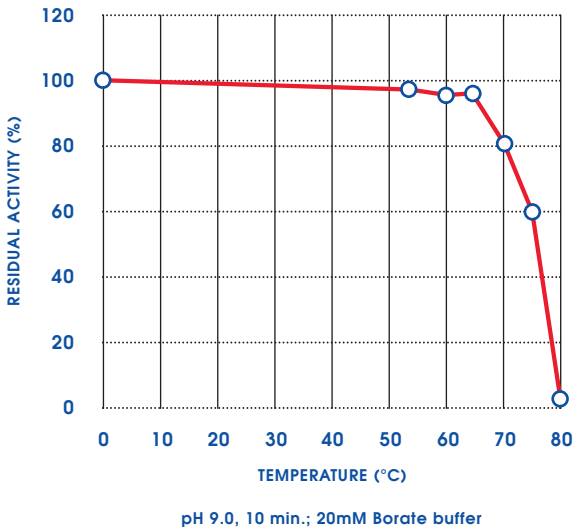


FIGURE 3: THERMAL STABILITY



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