

# Uricase

Catalogue No. URIC-70-1701, 70-1701-01

## ORIGIN

*Bacillus fastidiosus*

## SPECIFICATIONS

Appearance . . . . . White-off white free flowing powder  
 Activity . . . . . >10 U/mg powder at 37°C  
 Specific Activity . . . . . >15 U/mg protein at 37°C  
 Contaminants:  
 o Cholesterol oxidase . . . . . <0.005% by activity  
 o Catalase . . . . . <1% by activity  
 o Glucose oxidase . . . . . <0.005% by activity

## CHARACTERISTICS

Optimum pH . . . . . 8.9 to 9.2 in 0.02M borate buffer.  
 o At pH values below 8.0 uricase is much more active in phosphate buffer than in borate buffer.  
 Lyophilised Stability . . . . . Stable for 12 months desiccated at -20°C

## ASSAY PRINCIPLE

Uricase catalyses the following reaction:



As uric acid degrades there is a decrease in absorbance which can be measured spectrophotometrically at 292nm.

## 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 37°C under standard assay conditions.

(See Analytical Method for full details)



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