

A fast, simple enzymatic assay for plasma and serum Uric Acid.

Bulletin Reference	TB – Uric Acid – Clinical – GMRD-021 – V.01
Order Code(s)	GMRD-021
Reagent Kit Size(s)	50 ml (70 analyser cycles)
Instruments	All GM7 and GL5 series analysers
Samples	Plasma, serum
Sample Volume	10 µl
Analysis Time	20 seconds
Linearity	0.80 mmol/L (13.4 mg/dl)
Detection Limit	0.06 mmol/L (1 mg/dl)
Precision (Within Run)	C.V. of 2% @ 0.6 mmol/L (10 mg/dl)
Accuracy	i) Method Comparison vs. AAll Autoanalyser: y (Analox) = 1.022x + 0.004 mmol/L, r = 0.965, n = 53 ii) Recovery data: 94 - 108 %
Reagent Stability	Shelf-life unopened: 6 months when stored at 0 - 5°C. Shelf-life reconstituted: Enzyme/buffer reagent 2 - 3 weeks stored at 0 - 5°C.

Principle

In the presence of molecular oxygen, uric acid is oxidised by the enzyme uricase (urate oxidase) to allantoin and hydrogen peroxide,



Under the conditions of the assay, the rate of oxygen consumption is directly proportional to uric acid concentration.