

A fast enzymatic analysis for plasma Glycerol.

Bulletin Reference	TB – USA – Glycerol – GMRD-177– V.02
Order Code(s)	GMRD-177
Reagent Kit Size(s)	100 ml (140 analyzer cycles)
Instruments	All GM7 series analyzers
Samples	Plasma, serum
Sample Volume	25 µl
Analysis Time	20 - 25 seconds
Linearity	1.0 mmol/L (9.2 mg/dl)
Detection Limit	0.1 mmol/L (ca. 0.9 mg/dl)
Reagent Stability	Shelf-life unopened: 9 months stored at 0 - 5°C. Shelf-life reconstituted: 3 - 4 weeks stored at 0 - 5°C.
Note	Levels below ca. 0.2 mmol/L (1.8 mg/dl) can be regarded as clinically normal for human plasma. This kit includes a liquid QC.

Principle

In the presence of glycerol kinase (GK), glycerol is phosphorylated by adenosine triphosphate (ATP) forming glycerol-3-phosphate (G-3-P) which in turn is oxidised by glycerol-3-phosphate oxidase (GPO) to dihydroxyacetone phosphate (DAP) and hydrogen peroxide,



Under the conditions of the assay, both reactions run concurrently in the reaction chamber and the rate of oxygen consumption is directly proportional to glycerol concentration.

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