

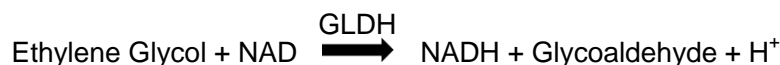
# Ethylene Glycol

## Intended Use

For **IN VITRO** diagnostic use in the automated, quantitative, determination of **Ethylene Glycol** in serum or plasma.

## Method Principle

Catachem's Ethylene Glycol procedure is based on the affinity of the enzyme Glycerol Dehydrogenase (EC 1.1.1.6.) from bacteria to catalyze the oxidation-reduction reaction of Ethylene Glycol in the presence of NAD. This two point kinetic procedure is read at 340 nm and the increase in absorbance is directly proportional to the concentration of Ethylene Glycol in the serum sample.



## Method Performance Characteristics

**Sensitivity:** 0.01 – 0.015 per mmol/L (0.06 – 0.09 mg/dL) should be obtained using a path length of 1 cm.

**Linear Range:** 0 – 50 mmol/L (0 – 310 mg/dL).

**Precision:** With-in run and day-to-day precision is summarized below.

Ethylene Glycol		Within-Run Precision			Total Precision		
MEAN		SD		CV	SD		CV
mg/dL	mmol/L	mg/dL	mmol/L	%	mg/dL	mmol/L	%
6.3	1.0	0.0	0.0	0	0.0	0.0	*
156	25.0	2.9	0.471	1.87	3.9	0.63	2.49
256	41.0	2.6	0.422	1.02	9.7	1.22	3.51