



🔍 Use a keyword, test name or number

Ethylene Glycol, Serum or Plasma

TEST: 071654 CPT: 82693

Special Instructions This test number is not intended for workplace testing and does not comply with state regulatory workplace testing programs.

Expected Turnaround Time 2 - 4 days
Turnaround time is defined as the usual number of days from the date of pickup of a specimen for testing to when the result is released to the ordering provider. In some cases, additional time should be allowed for additional confirmatory or additional reflex tests. Testing schedules may vary.

Related Documents

- [Sample Report](#)

SPECIMEN REQUIREMENTS

Specimen Serum **or** plasma

Volume 1 mL

Minimum Volume 0.2 mL

Container Red-top tube, green-top (li-heparin) tube, gray-top (sodium fluoride) tube, plasma from lavender-top tube

Collection Blood is to be collected by venipuncture and mixed immediately by gentle inversion at least six times to ensure adequate mixing. Separate plasma or serum from cells by centrifugation in less than two hours.

Storage Refrigerate.

Instructions

Stability
Requirements

Temperature	Period
Room temperature	8 days
Refrigerated	14 days
Frozen	14 days
Freeze/thaw cycles:	Stable x2

TEST DETAILS

Limitations This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

Methodology Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

Reference Interval None detected (<5 mg/dL)

Critical Value **Potentially toxic:** >20 mg/dL

Additional Information Ethylene glycol is a colorless, odorless, sweet tasting compound used commercially in antifreeze. It has been utilized in suicide attempts, as a substitute for ethanol and in accidental poisonings in both children and domestic pets. 100 mL is lethal; rapid treatment can prevent damage. Half-life is three to five hours. Toxicity is manifested by CNS depression (1 to 12 hours after ingestion), cardiopulmonary symptoms (12 to 24 hours after ingestion), and renal damage (24 to 72 hours after ingestion). Oxalate is a minor metabolite of ethylene glycol and crystals are commonly seen in urine. In addition to blood levels of ethylene glycol, hypocalcemia, elevated anion gap, metabolic acidosis, and osmolal gap elevation are observed. **Precaution:** Toxicity may be manifested without osmolal gap changes and osmolal and anion gap increases can be present with very low levels of ethylene glycol.

References Fraser AD. Clinical toxicologic implications of ethylene glycol and glycolic acid poisoning. *Ther Drug Monit.* 2002 Apr; 24(2):232-238. [PubMed 11897969](#)

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