

Methylphenidate, Serum

Test ID: RIT

Explanation:

Effective September 29, 2026, test ID RIT, referred to Medtox Laboratories, will be obsolete due to availability of Mayo test MPHNS.

Recommended Alternative Test:

Methylphenidate and Metabolite, Serum

Test ID: MPHNS

Useful For:

Confirming drug exposure and monitoring serum concentrations of methylphenidate and ritalinic acid.

Methodology:

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

Reference Values:

Methylphenidate:

4-25 ng/mL (Single-dose peak plasma concentration range in children given 10-15 mg dose)

Ritalinic acid:

80-250 ng/mL (Single-dose peak plasma concentration range in children given 10-15 mg dose)

Cutoff concentrations:

Methylphenidate: 1.0 ng/mL

Ritalinic acid: 1.0 ng/mL

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Collection Container/Tube: Red top (Serum gel/SST are not acceptable)

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL Serum

Collection Instructions: Within 2 hours of collection, centrifuge and aliquot serum into a plastic vial.

Minimum Volume: 0.5 mL Serum

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum Red	Frozen	28 days

CPT Code:

G0480

80360 (if appropriate for select payers)

Day(s) Setup: Thursday

Report Available: 3 to 9 days

Questions

Contact MCS Referrals Supervisors Amy Bluhm or Heather Hilgart at 800-533-1710.