

TEST CHANGE

Mycophenolic Acid and Metabolites

2010359, MPA MET

Specimen Requirements:

Patient Preparation: Timing of specimen collection: Pre-dose (trough) draw - At steady state concentration.

Collect: Plain red. Also acceptable: Lavender (K2 or K3EDTA) or pink (K2EDTA).

Specimen Preparation: Separate serum or plasma from cells within 2 hours of collection. Transfer 1 mL serum or plasma to an ARUP Standard Transport Tube. (Min: 0.1 mL)

Transport Temperature: Refrigerated.

Unacceptable Conditions: Whole blood. Gel separator tubes, light blue (citrate), or yellow (SPS or ACD solution).

Remarks:

Stability: After separation from cells: Ambient: 6 weeks; Refrigerated: 6 weeks; Frozen: 11 months

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

Performed: Sun-Sat

Reported: 1-~~4~~3 days

Note:

CPT Codes: 80180

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

The therapeutic range is based on serum pre-dose (trough) draw at steady-state concentration. A proposed therapeutic range is 1.0-3.5 µg/mL for a 2 g/day dose. A 3 g/day dose may have plasma concentrations up to 5.0 µg/mL. Trough concentrations between 2.0 and 4.0 µg/mL have been suggested to maximize efficacy and minimize adverse effects. Mycophenolic acid glucuronide is an inactive metabolite and a range of 35.0-100.0 µg/mL indicates normal metabolism. During the first two weeks of transplantation, mycophenolic acid glucuronide concentrations are typically 100 - 250 µg/mL. Adverse effects of toxicity include abdominal pain, peripheral edema, cardiac abnormalities, hypertension and electrolyte disturbances.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Reference Interval:

Available Separately	Component	Therapeutic Range	Toxic
No	Mycophenolic Acid	1.0 - 3.5 ug/mL	Greater than 25.0 ug/mL
No	Mycophenolic Acid Glucuronide	35.0-100.0 ug/mL	Not well established