
Lab Dept: Chemistry

Test Name: TACROLIMUS (FK506) LEVEL (MAYO TRANSPLANT PATIENTS)

General Information

Lab Order Codes: TACR

Synonyms: FK506; Prograf®

CPT Codes: 80197 - Tacrolimus

Test Includes: Tacrolimus concentration reported in ng/mL.

Logistics

Test Indications: Useful for guiding dosage adjustments to achieve optimal immunosuppression while minimizing dose-dependant toxicity.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (Test: TAKRO)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 days, test performed daily

Special Instructions: Usual sampling time is prior to next dose for trough levels.

Specimen

Specimen Type: Whole Blood

Container: Lavender top (EDTA) tube

Draw Volume: 3 mL (Minimum: 1 mL) blood

Processed Volume: Same as Draw Volume

Collection: Routine venipuncture

Special Processing:	Lab Staff: Do Not centrifuge. Specimen should remain as whole blood in original collection container. Store in refrigerator. Ship at refrigerated temperatures. Forward promptly.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range: 5.0 – 15.0 ng/mL

Critical Values: N/A

Limitations: The recommended therapeutic range applies to trough specimens drawn just before the next dose. Blood collected at other times will yield higher results.

Methodology: High Performance Liquid Chromatography/Tandem Mass Spectrophotometry (HPLC-MS/MS)

References: [Mayo Medical Laboratory Web Page](#) (July 2013)

Updates: 8/11/2004: Effective 8/4/2004, this test was moved from Fairview Diagnostic Laboratories to Mayo Medical Laboratories. Note: Change in Draw Volume (previously 2.0 mL), Change in Reference Range (previously 10-20 ug/L), Change in Critical Range (previously >40 ug/L) and Change in method (previously MEIA).