
Lab Dept: Chemistry

Test Name: TACROLIMUS (FK506) LEVEL

General Information

Lab Order Codes: TACL

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 – Performed on Minneapolis campus

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Batched Daily; Samples received by 1000 will go on the daily batch

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: 3.0 – 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: Chemiluminescent Microparticle Immunoassay (CMIA)

References: Abbott Architect Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA. September 2015

Abbott Architect Tacrolimus Calibrator Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA. October 2014

Abbott Alinity i Tacrolimus Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA August 2019

Abbott Alinity i Tacrolimus Calibrators Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA. Mayo 2019

Bio-Rad Liquichek Whole Blood Immunosuppressant Control Product Insert, Bio-Rad Laboratories, Irvine, CA, 92618, August 2018

Updates: 12/18/2018: Transitioned to in-house test.
5/28/2019: TAT update
11/24/2020: Updated for method Abbott Alinity