
Lab Dept: Chemistry

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

General Information

Lab Order Codes: TACU

Synonyms: FK506; Prograf®

CPT Codes: No charge, if the transplant was at the UM

Test Includes: Tacrolimus level reported in ug/L.

Logistics

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

Lab Testing Sections: Chemistry - Sendouts

Referred to: Fairview University Labs (Fairview Code: TACR)

Phone Numbers: MIN: 612-813-6280

STP: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 days, test performed daily; results are reported the same day

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

Specimen

Specimen Type: Whole blood

Container: Lavender top (EDTA) tube

Draw Volume: 2 mL (Minimum: 0.4 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. Do Not order test in Atlas. Ship at room temperature. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

Therapeutic range based on draw immediately prior to next dose. Default Therapeutic Reference Range: 5.0 – 15.0 ug/L	
Kidney Transplant	Range (ug/L)
Pediatric	
0 – 3 months post transplant	10 - 12
3 – 6 months post transplant	8 – 10
6 – 12 months post transplant	6 – 8
>12 months post transplant	4 – 7
Adult	
0 – 6 months post transplant	8 – 10
6 – 12 months post transplant	6 – 8
>12 months post transplant	4 – 6
>5 years post transplant	3 – 5
Heart Transplant	Range (ug/L)
Pediatric	
0 – 12 months post transplant	10 – 15
>12 months post transplant	5 – 10
Adult	
0 – 3 months post transplant	10 – 15

3 – 6 months post transplant	8 – 12
6 – 12 months post transplant	6 – 12
>12 months post transplant	6 – 10
Lung Transplant	Range (ug/L)
0 – 12 months post transplant	10 – 15
>12 months post transplant	8 – 12
Liver Transplant	Range (ug/L)
Pediatric	
0 – 3 months post transplant	10 – 12
3 – 6 months post transplant	8 – 10
>6 months post transplant	6 – 8
Adult	
0 – 3 months post transplant	10 – 12
3 – 6 months post transplant	8 – 10
>6 months post transplant	6 – 8
Pancreas Transplant	Range (ug/L)
0 – 6 months post transplant	8 – 10
>6 months post transplant	5 – 8

Critical Values: >20 ug/L

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

References: [Fairview-University Web Page](#) November 2012

Updates:

7/3/2009: Reference range change, previously reported as 10-20 ug/L.
Critical value change, previously reported as >40 ug/L
11/12/2012: Reference range update.