Lab Dept: Chemistry

Test Name: SIROLIMUS, WHOLE BLOOD (MAYO

TRANSPLANT PATIENTS ONLY)

General Information

Lab Order Codes: SIRO

Synonyms: Rapamune Mayo; Rapamycin Mayo; SIIRO; Sirolimus MML Transplant

CPT Codes: 80195 - Sirolimus

Test Includes: Sirolimus blood level reported in ng/mL

Logistics

Test indications: Monitoring whole blood sirolimus concentration during therapy for Mayo

Transplant patients ONLY that must have the assay completed at Mayo Clinic Laboratory. Consider the in-house assay <u>SIRC</u> for other purposes.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Clinic Laboratories (MML: SIIRO)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily

Turnaround Time: 1-3 days

Special Instructions: Draw blood immediately before a scheduled dose.

Specimen

Specimen Type: Whole blood

Container: Lavender-top (EDTA) tube

Draw Volume: 3 mL (Minimum: 1.0 mL) blood

Processed Volume: Same as Draw Volume

Collection: Routine blood collection, typically timed.

Special Processing: Lab Staff: Do NOT centrifuge or aliquot. Store and ship whole blood

refrigerated in original tube. Forward promptly.

Specimen stable refrigerated (preferred), ambient or frozen for 28 days.

Patient Preparation: For therapeutic range monitoring, blood should be drawn immediately

before dose.

Sample Rejection: Specimens collected in incorrect anticoagulant; unlabeled or mislabeled

specimens.

Interpretive

Reference Range: 4-20 ng/mL (Trough)

Target steady-state trough concentrations vary depending on the type of transplant, concomitant immunosuppression, clinical/institutional protocols, and time post-transplant. Results should be interpreted in conjunction with

this clinical information and any physical signs/symptoms of

rejection/toxicity.

Critical Values: N/A

Limitations: The recommended therapeutic range applies to trough specimens collected

immediately before a dose. Blood drawn at other times will yield higher

results.

Methodology: High-Performance Liquid Chromatography-Tandem Mass Spectrometry

(HPLC-MS/MS)

References: Mayo Clinic Laboratories (March 2024)

Updates: 3/7/2024: Initial entry. Previous version of the Lab Test Directory was

adapted when the assay was brought in-house.