

Name : Mr. I V KARTHIK	Age : 33 Years
Lab No. : 472857074	Gender : Male
Ref By : DR SEERAPANI	Reported : 19/12/2024 4:57:23PM
Collected : 18/12/2024 7:00:00AM	Report Status : Final
A/c Status : P	Processed at : LPL-BENGALURU REFERENCE LAB
Collected at : LPL-HYDERBAD	NO.17/1,SERVICE ROAD, THE
4th Floor, Oyster Oasis Centre, MCH No.	ADDRESS,OPP PRESTIGE CESSNA PARK,
6-3-1112 Greenland's Road Somajiguda, Circle	OUTER RING ROAD ,KADUBEESANAHALLI
no. 10, Old MCH Circle no. 5,GHMC, Begumpet,	,BANGALORE-560103
Hyderabad -500016	



Test Report

Test Name	Results	Units	Bio. Ref. Interval
TACROLIMUS (FK-506), WHOLE BLOOD (LC-MS / MS)	7.73	ug/L	

Interpretation

KIDNEY TRANSPLANT	POST TRANSPLANT	THERAPEUTIC RANGE in ug/L
PEDIATRIC	0-3 months 3-6 months 6-12 months >12 months	10-12 8-10 6-8 4-7
ADULT	0-6 months 6-12 months >12 months >5 Years	8-10 6-8 4-6 3-5
	Toxic range	>20

LIVER TRANSPLANT	POST TRANSPLANT	THERAPEUTIC RANGE in ug/L
PEDIATRIC	0-3 months 3-6 months >6 months	10-12 8-10 6-8
ADULT	0-3 months 3-6 months >6 months	10-12 8-10 6-8
	Toxic range	>20

Note: 1. Therapeutic range is based on whole blood specimen drawn 12 hrs post dose or prior to next dose (trough)

2. Factors affecting Tacrolimus concentration in blood are:

- Nature of transplant
- Age and general health of the patient
- Co-administration of drugs
- Intake of drug with meal
- Time post transplant

3. Tacrolimus Whole blood concentrations can be measured by either chromatographic (LC-MS/MS) or immunoassay (CLIA) methodologies. These two techniques are not directly interchangeable and the measured drug level depends on the methodology used. Reference ranges are different for the two



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methodologies. Generally CLIA has a positive bias as compared with LC-MS/MS due to cross reacting antibodies with the drug metabolites.

Comments

LC-MS/MS is considered the most sensitive, specific and precise technology for monitoring immunosuppressants. Therapeutic drug monitoring (TDM) is commonly used to help maintain drug levels within the concentration range in which the drug exerts its clinical effect with minimal adverse reactions. Tacrolimus is a potent immunosuppressant approved for prophylaxis of organ rejection in patients receiving allogeneic liver transplants. It has also been used effectively in other solid organ transplant patients like kidney transplant for prevention of graft versus host disease as well as in pancreatic islet transplantation. It exerts immunosuppressive effect following the formation of a complex with immunophilins. Its absorption from small intestine is highly variable ranging from 4-93% and changes with time following transplant surgery. Even the elimination half life of Tacrolimus is variable being 12 hours in liver transplant patients and 19 hours in renal transplant patients.

Indications for testing

- Immunosuppressant dose optimization
- Failure to respond to immunosuppressants
- Signs or Symptoms consistent with inadequate or excessive immunosuppression
- Changes to concomitant medications or other variables that affect pharmacokinetics



Dr. Swetha V
MD, Biochemistry
Senior Consultant - Clinical
Chemistry & Biochemical Genetics
Dr Lal PathLabs Ltd

-----End of report-----



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<p>IMPORTANT INSTRUCTIONS</p> <p>•Test results released pertain to the specimen submitted. •All test results are dependent on the quality of the sample received by the Laboratory .</p> <p>•Laboratory investigations are only a tool to facilitate in arriving at a diagnosis and should be clinically correlated by the Referring Physician .•Report delivery may be delayed due to unforeseen circumstances. Inconvenience is regretted .•Certain tests may require further testing at additional cost for derivation of exact value. Kindly submit request within 72 hours post reporting. •Test results may show interlaboratory variations. •The Courts/Forum at Delhi shall have exclusive jurisdiction in all disputes/claims concerning the test(s) & or results of test(s). •Test results are not valid for medico legal purposes. •This is computer generated medical diagnostic report that has been validated by Authorized Medical Practitioner /Doctor. •The report does not need physical signature.</p> <p>(#) Sample drawn from outside source.</p> <p>If Test results are alarming or unexpected, client is advised to contact the Customer Care immediately for possible remedial action.</p> <p>Tel: +91-11-49885050, Fax: - +91-11-2788-2134, E-mail: lalpathlabs@lalpathlabs.com</p>			

