



Together we can fight

INFECTIOUS DISEASES

FIGHT | CURE | PREVENT



TUBERCULOSIS

Comprehensive Testing Solutions for Tuberculosis

AFB TB by PCR



- Rapid detection of both pulmonary and extrapulmonary tuberculosis by Real-Time PCR.
- Specific detection of Mycobacterium Tuberculosis Complex (MTBC) and Nontuberculous Mycobacteria (NTM).
- High sensitivity- 99%.
- Shortest turnaround time- 24 hours.

Detection of tuberculosis from any clinical specimens- Sputum, Blood, Urine, Pus, Tissue, Biopsy etc.
Blood samples are also accepted by TB PCR, which is not possible with the GeneXpert method.

MTB Drug resistance INH-RIF by PCR

- For early & effective detection of drug-resistant tuberculosis.
- Qualitative resistance detection within a single assay for the two most important first-line *M.tuberculosis* (TB) drugs- Rifampicin & Isoniazid.
- Differentiates Rifampicin/ Isoniazid-susceptible and resistance between wild and mutant strains as per the current WHO guidelines.
- Highly reliable and accurate.
- Sensitivity is 96%, Specificity is 100%.

AFB - Genexpert MTB/ RIF

- FDA approved method for TB diagnosis as a confirmatory test next to TB Culture to initiate Anti Tuberculosis Therapy (ATT) Drug regimen.
- Helps in TB diagnosis along with Rifampicin drug resistance.
- Simple and rapid method -8 hours TAT.
- Enables the detection of multiple mutations across several genes in a single sample.

Mycobacterium tuberculosis- Whole Genome Sequencing- Drug Resistance Panel

- Rapid & comprehensive drug sensitivity test (DST) for tuberculosis covering 18 antibiotics.
- Strain level identification of TB.
- High specificity (85-98%) & sensitivity (99.8%).
- Accurate & clinically relevant report.
- Recognized and recommended by WHO.



Test Ordering Information

Test Code	Test Name	Specimen	Method	TAT		
A0005c	AFB- TB by PCR, Body fluids	3ml body fluid in sterile container	Real Time PCR	Daily by 8 pm; Report by next day		
A0005d	AFB- TB by PCR, CSF	0.5-1ml CSF in sterile container				
A0005e	AFB- TB by PCR, Tissue	20-25mg tissue in sterile container				
A0005f	AFB- TB by PCR, Urine	30ml urine in plastic/ 30ml tube/ clean plastic aliquot container with no metal cap or glued insert				
A0005o	AFB- TB by PCR, Menstrual Blood	1-3ml menstrual blood in sterile container				
A0005p	AFB- TB by PCR, EDTA Whole Blood	3ml Whole Blood in K2 EDTA (Lavender top) tube				
A0005m	AFB- TB by PCR, Intestinal Fluid	3ml intestinal fluid in sterile container				
A0005k	AFB Speciation, Other Body Fluids	3ml Sputum/ Body Fluid/ Biopsy tissue in sterile container	PCR Sanger Sequencing	Daily by 8 pm; Report within 5 days		
A0005l	MTB- Xpert plus Extra Pulmonary	3ml body fluid/ biopsy tissue in sterile container	GeneXpert + AFB Smear + MGIT Culture	Daily by 9 PM; GeneXpert & AFB smear by next day, MGIT culture report within 6 weeks		
A0005aa	AFB - GeneXpert MTB/RF, Body Fluids	3ml body fluid in sterile container	AFB - GeneXpert MTB/RF, Stool	Daily by 8 pm; Report by next day		
A0005ab	AFB- GeneXpert MTB/ RF, Sputum	2-5ml sputum in sterile container				
A0005ac	AFB - GeneXpert MTB/RF, Lymphnode tissue and aspirate	Lymph node tissue and aspirate in sterile container				
A0005ad	AFB - GeneXpert MTB/RF, Bronchial Secretions	2-5ml Bronchial secretions in sterile container				
A0005ae	AFB - GeneXpert MTB/RF, Bone and Joint Aspirates	Bone and Joint Aspirates in sterile container				
A0005af	AFB - GeneXpert MTB/RF, Gastric lavage and aspirate	Gastric lavage and aspirate in sterile container				
A0005ag	AFB - GeneXpert MTB/RF, CSF	1-2ml CSF in sterile container				
A0005ah	AFB - GeneXpert MTB/RF, Tissue	20mg tissue in sterile container				
A0005ai	AFB - GeneXpert MTB/RF, Urine	3-5ml Urine in sterile container				
A0005y	AFB - GeneXpert MTB/RF, Pleural Fluid	3-5ml Pleural fluid in sterile container				
A0005z	AFB - GeneXpert MTB/RF, Stool	1 gm stool in sterile container				
M0010	MTB Drug resistance INH-RIF - Tissue /Blood, Body Fluids	20-25 mg Endometrial Tissue/3 ml Whole Blood in K2 EDTA Tube/3-5 ml Body Fluids in sterile container			Real Time PCR	Daily by 8 pm; Report within 15-21 days; MGIT culture report within 6 weeks
A0005j	AFB- TB Culture Positive Reflex MDR by PCR Sequencing	2ml Sputum/ Body Fluids/ Biopsy tissue in sterile container			MGIT Culture + Sanger Sequencing	
TBWGS	Mycobacterium tuberculosis- Whole Genome Sequencing- Drug Resistance Panel	Sputum, Urine, or CSF/ Tissue/ Biopsy/ Positive TB Culture in sterile container/ MGIT culture tube	Whole Genome Sequencing			
MTBCGS	Mycobacterium tuberculosis Culture -Reflex Genome Sequencing (MTB-CGS)	Critical Specimen/Positive culture	TB Culture + Reflex TB WGS			
MTBXGS	Mycobacterium tuberculosis Xpert Genome Sequencing (MTB-XGS)		GeneXpert+TB Culture+TB WGS			
MTBGSS	Mycobacterium tuberculosis Genome Sequencing & AFB Smear (MTB-GSS)		AFB Smear+ TB Culture+TB WGS			
MTBXGSS	Mycobacterium tuberculosis Comprehensive panel (MTB-XGSS)		AFB Smear+ GeneXpert+ TB Culture+ TB WGS			



HEPATITIS

A Complete Panel For Testing & Management Of Hepatitis

HBV/ HCV Quantitative (Viral Load) by PCR, Plasma



- Evaluates viral load with response to antiviral treatment and aids in optimal treatment management.
- Indicator of past or present infection.
- Highly sensitive and specific for prognosis evaluation.
- Recommended by WHO & CDC.

Limit of detection

- HBV: 100 IU/mL
- HCV: 150 IU/mL

HCV Genotype Identification (6 genotypes) by RT-PCR, EDTA Whole Blood



- Specific detection of major HCV genotypes (HCV 1a, 1b, 2, 3, 4, 5 and 6)
- Taqman probes which allow higher specificity and sensitivity.
- Helps in selecting treatment procedures and predicting treatment response.
- High-throughput and fast results in under one hour after the start of PCR.

"Identification of the genotype is highly critical and improves the prognosis & treatment of infected individuals."

Test Ordering Information

Test Code	Test Name	Specimen	Method	TAT
Hepatitis A				
H0008a	HAV Antibodies, Total, Serum	1ml serum in SST/ Red top (no additive) tube	CMA	Daily by 9 am to 9 pm; Report within 2 days
H0008c	HAV IgM Antibody, Serum		CMA	
H0008b	HAV IgG Antibody, Serum		CMA	
H0008	Hepatitis A Virus (HAV) Detection (Qualitative) Real Time PCR, EDTA Whole Blood	3ml EDTA blood/ plasma in K2 EDTA (Lavender Top) tube/ Sterile Container	RT PCR	Daily by 6 pm; Report within 2 days
H0008d	Hepatitis A Virus (HAV) Viral Load (Quantitative) Real Time PCR, EDTA Whole Blood		RT PCR	
Hepatitis B				
H0009a	Anti HBc IgM (Core Antibody), Serum	1ml serum in SST/ Red top (no additive) tube	CMA	Daily by 6 pm; Report by next day
H0009m	Anti HBc (Envelope Antibody), Serum		CMA	
H0009j	Anti HBs (HBV Surface Antibody) Quantitative, Serum		CMA	Daily by 9 am to 9 pm; Report same day
H0009f	Anti HBc Total (Core Antibody), Serum		CMA	
H0009d	HBsAg (Surface Antigen) Rapid, Serum		RAPID CARD	
H0009e	HBsAg (Surface Antigen) by CMA, Serum		CMA	Daily by 6 pm; Report by next day
H0009c	HBsAg (Envelope Antigen) by CMA, Serum		CMA	
H0009t	HBsAg (Surface Antigen) (Quantitative), Serum		CMA	
H0009g	HBV DNA Qualitative by PCR, Plasma		RT PCR	
H0009i	HBV Quantitative (Viral Load) by PCR, Plasma	3ml EDTA blood/ Plasma in K2 EDTA (lavender top) tube/ Sterile Container	RT PCR	
Hepatitis C				
H0010a	HCV Antibody by Rapid Card, Serum	1ml serum in SST/ Red top (no additive) tube	RAPID CARD	Daily by 9 am to 9 pm; Report same day
H0010b	HCV RNA Quantitative by PCR, Plasma	3ml EDTA blood/ Plasma in K2 EDTA (lavender top) tube/ Sterile Container	RT PCR	Daily by 6 pm; Report by next day
H0010d	Hepatitis C Virus - HCV RNA Qualitative by PCR, Plasma		RT PCR	
H0010f	Hepatitis C Virus by ELISA	3ml serum in SST/ Red top (no additive) tube	ELISA	Daily by 6 pm; Report within 3 days
H0010g	Hepatitis C Virus IgG, Serum		ELISA	
H0010f	Hepatitis C Virus - IgM Antibody, Serum		ELISA	
H0010c	HCV Genotype Identification (6 genotypes) by RT-PCR, EDTA Whole Blood	3ml Whole Blood or 1ml Plasma, EDTA in K2 EDTA (Lavender top)	RT PCR	Daily by 6 pm; Report by next day
HCVCOM-BO	HCV COMBO (Viral Load + Genotyping), EDTA Whole Blood		RT PCR	
Hepatitis D				
H003l	Hepatitis D Virus (HDV) Detection (Qualitative) Real Time PCR, Plasma/Serum	3ml EDTA blood/ plasma in K2 EDTA (Lavender Top) tube/ Sterile Container	RT PCR	Daily by 6 pm; Report within 2 days
H003ld	Hepatitis D Virus (HDV) Viral Load (Quantitative) Real Time PCR, Plasma/Serum	3ml EDTA blood/ plasma in K2 EDTA (Lavender Top) tube/ Sterile Container	RT PCR	
Hepatitis E				
H001a	Hepatitis E - IgG Antibody, Serum	1ml serum in SST/ Red top (no additive) tube	ELISA	Daily by 6 pm; Report within 3 days
H001b	Hepatitis E - IgM Antibody, Serum		ELISA	
H001c	Hepatitis E - Total Antibodies, Serum		ELISA	
H001d	Hepatitis E Virus (HEV) Detection (Qualitative) Real Time PCR, EDTA Whole Blood	3ml EDTA blood/ plasma in K2 EDTA (Lavender Top) tube/ Sterile Container	RT PCR	Daily by 6 pm; Report within 2 days
H001h	Hepatitis E Virus (HEV) Viral Load (Quantitative) Real Time PCR, EDTA Whole Blood		RT PCR	
H001i	Hepatitis E Virus (HEV) Detection (Qualitative) Real Time PCR, Body Fluids	3-5 mL Body Fluid, Sterile Container	RT PCR	
H001e	Hepatitis E Virus (HEV) Detection (Qualitative) Real Time PCR, Stool	1-2mg Stool, Sterile Container	RT PCR	
H001f	Hepatitis E Virus (HEV) Detection (Qualitative) Real Time PCR, Urine	10 mL Urine, Sterile Container	RT PCR	
H001g	Hepatitis E Virus (HEV) Viral Load (Quantitative) Real Time PCR, Body Fluids	3-5 mL Body Fluid, Sterile Container	RT PCR	
H001i	Hepatitis E Virus (HEV) Viral Load (Quantitative) Real Time PCR, Stool	1-2mg Stool, Sterile Container	RT PCR	
H001j	Hepatitis E Virus (HEV) Viral Load (Quantitative) Real Time PCR, Urine	10 mL Urine, Sterile Container	RT PCR	



OTHER INFECTIOUS TESTS

Facilitating Definitive Diagnosis of Infectious Diseases

CMV PCR, Qualitative, Plasma

- A preliminary test to check the presence of pathogenic nucleic acid.
- Provides both qualitative and quantitative detection.
- Helps in monitoring viral burden in infected individuals.



CMV PCR, Quantitative, Plasma

- Helps to evaluate both viral load and pathogenic nucleic acid.
- Facilitates continuous assessment and monitoring of treatment to prevent end-organ disease (EOD) in extreme cases.
- Early detection and treatment can prevent long-term health complications.
- Approved by WHO and CDC.

Indications

- Neonatal conditions
- Transplant patients
- Immunocompromised patients

HIV I-RNA Viral Detection (Qualitative) By RT-PCR, Plasma

- Helps to screen and diagnose patients with HIV-1 infection.
- Highly specific to HIV-1: Covers all major HIV genotypes (A – D, AE, F, AG-GH, Group N, Group O, BF, H, K, CRF03_AB).
- Helps in monitoring antiviral therapy.
- Initial screening of patients with other STD-positive symptoms like *Chlamydia/ Gonorrhoea* or *Syphilis*.

Indications

- Blood transfusion patients
- Pre- and Post- transplant conditions
- Accidental trauma

HIV I-RNA Viral load (Quantitative) by RT-PCR, Plasma

- Helps to evaluate the viral load for the prognosis evaluation and clinical management of HIV-infected patients.
- Enables early detection of treatment failure.
- Identifies people with high viral loads with poor adherence and avoids inappropriate switching of the treatment regimens.
- Recommended by WHO.

HSV 1 & 2 (Qualitative) by PCR, Plasma

- A single PCR detects and distinguishes *Herpes Simplex Virus-1* and *Herpes Simplex Virus-2*.
- Highest sensitivity (100.00%) & specificity (97.62%).
- Gold standard for diagnosis: Fast and Accurate results.
- Helps in diagnosis of prenatal infections by testing Amniotic fluid or CVS samples.
- Differential diagnosis with other ulcerative STIs.



HSV 1 & 2 Viral Load (Quantitative) by RT-PCR, Plasma

- Evaluates the viral load for timely diagnosis that helps the clinician to treat the patients appropriately.
- Helps to track the development of an infection and monitor therapeutic outcomes based on viral load from the clinical specimens.
- Helps to identify individuals who have elevated viral loads and poor adherence to avoid inappropriate treatment regimen switching.

BK Virus Detection (Qualitative) by RT-PCR, Plasma

- Helps in monitoring the viral burden in infected individuals.
- Highly specific: the primers and probes used in this assay are specific for all known BKV strains.
- Enables rapid and specific detection prior to clinical symptoms to help improve outcomes.

BK Virus Load (Quantitative) by RT-PCR, Plasma

- Helps to monitor disease development and therapeutic outcomes based on viral load.
- Monitors the potential reactivation of BKV in renal transplant patients.
- Helps to identify individuals who have elevated viral loads and poor adherence to avoid inappropriate treatment regimen switching.

Indications

- Hemorrhagic cystitis in hematopoietic stem cell transplantation patients.
- Kidney transplant patients



Test Ordering Information

Test Code	Test Name	Specimen	Method	TAT	
C0023a	CMV PCR, Qualitative, Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top)	RT PCR	Daily by 6 pm; Report within 24hrs	
C0023c	CMV PCR, Qualitative, Urine	10ml Urine, Sterile Container		Daily by 6 pm; Report within 24hrs	
C0023b	CMV PCR, Quantitative, Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top)		Daily by 6 pm; Report within 24hrs	
C0023e	CMV PCR, Quantitative, Urine	10ml Urine, Sterile Container		Daily by 6 pm; Report within 24hrs	
H004f	HIV 1-RNA (Qualitative) by RT-PCR, Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top)		Daily by 6 pm; Report within 4-7 days	
H004d	HIV 1-RNA Viral load (Quantitative) by RT-PCR, Plasma			Daily by 6 pm; Report within 24hrs	
H0003	HSV 1 & 2 Qualitative By PCR, Plasma			Daily by 6 pm; Report within 24hrs	
H002h	HSV 1 & 2 Qualitative By PCR, Urine	10ml Urine, Sterile Container		Daily by 6 pm; Report by next day	
H002g	HSV 1 & 2 Viral Load (Quantitative) by RT-PCR, Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top)		Daily by 9 pm; Report within 24hrs	
H002i	HSV 1&2 (Qualitative) by RT-PCR, Body fluids	3-5mL Body Fluids, Sterile Container		Daily by 6 pm; Report by next day	
H002j	HSV 1&2 (Quantitative) by RT-PCR, Body fluids			Daily by 6 pm; Report within 2 days	
H0035a	Human Herpesvirus (HHV6) Quantitative by PCR				
H0037a	Human Herpesvirus (HHV7) Quantitative by PCR				
H0036	Human herpesvirus 8 (HH8) Detection (Qualitative) Real Time PCR			3ml EDTA Whole Blood / 3-5mL Body Fluids, EDTA Vacutainer / Sterile Container	
H0037	Human herpesvirus 7 (HH7) Detection (Qualitative) Real Time PCR				
B004a	BK Virus Detection by RT-PCR (Qualitative), Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top)		RT PCR	Daily by 6 pm; Report within 48hrs
B004b	BK Virus Load (Quantitative) by RT-PCR, Plasma				
B005a	BK JC Virus Detection by RT-PCR (Qualitative), EDTA Whole Blood	3ml Whole Blood in K2 EDTA Tube (Lavender top), Sterile Container			
B005b	BK JC Virus Load (Quantitative) by RT-PCR, EDTA Whole Blood				
B004c	BK Virus Load (Quantitative) by RT-PCR, Urine	10ml Urine, Sterile Container			
BKCMV01	BKCMV Viral infection Panel (Qualitative) by Real Time PCR, Aspirate/Body Fluids	3-5mL Aspirate/Body Fluids, Sterile Container			
BKCMV02	BKCMV Viral infection Panel (Qualitative) by Real Time PCR, CSF	0.5- 1ml CSF, Sterile Container			
BKCMV03	BKCMV Viral infection Panel (Qualitative) by Real Time PCR, EDTA Whole Blood	3ml Whole Blood in K2 EDTA Tube (Lavender top), Sterile Container			
BKCMV04	BKCMV Viral infection Panel (Qualitative) by Real Time PCR, Urine	10ml Urine, Sterile Container			
BKCMV05	BKCMV Viral infection Panel (Quantitative) by Real Time PCR, Aspirate/Body Fluids	3-5mL Aspirate/Body Fluids, Sterile Container			
BKCMV06	BKCMV Viral infection Panel (Quantitative) by Real Time PCR, CSF	0.5- 1ml CSF, Sterile Container			
BKCMV07	BKCMV Viral infection Panel (Quantitative) by Real Time PCR, EDTA Whole Blood	3ml Whole Blood in K2 EDTA Tube (Lavender top), Sterile Container			
BKCMV08	BKCMV Viral infection Panel (Quantitative) by Real Time PCR, Urine	10ml Urine, Sterile Container			
J0003c	JC Virus Qualitative, CSF	0.5- 1ml CSF, Sterile Container			
J0003e	JC Virus Qualitative, Body fluids	3-5mL Body Fluids, Sterile Container			
J0003a	JC Virus Qualitative, Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top), Sterile Container			
J0003f	JC Virus Quantitative, Body fluids	3-5mL Body Fluids, Sterile Container			
J0003d	JC Virus Quantitative, CSF	0.5- 1ml CSF, Sterile Container			
J0003b	JC Virus Quantitative, Plasma	3ml Whole Blood in K2 EDTA Tube (Lavender top), Sterile Container			

why choose us

#1 in the Prenatal Screening of Aneuploidies
and in Noncancer Karyotyping



Market Leader in Reproductive
Markers & Genomics



Highly Skilled &
Experienced Technical Team



State of the Art National
Reference Laboratory at Chennai



Cutting Edge Technology

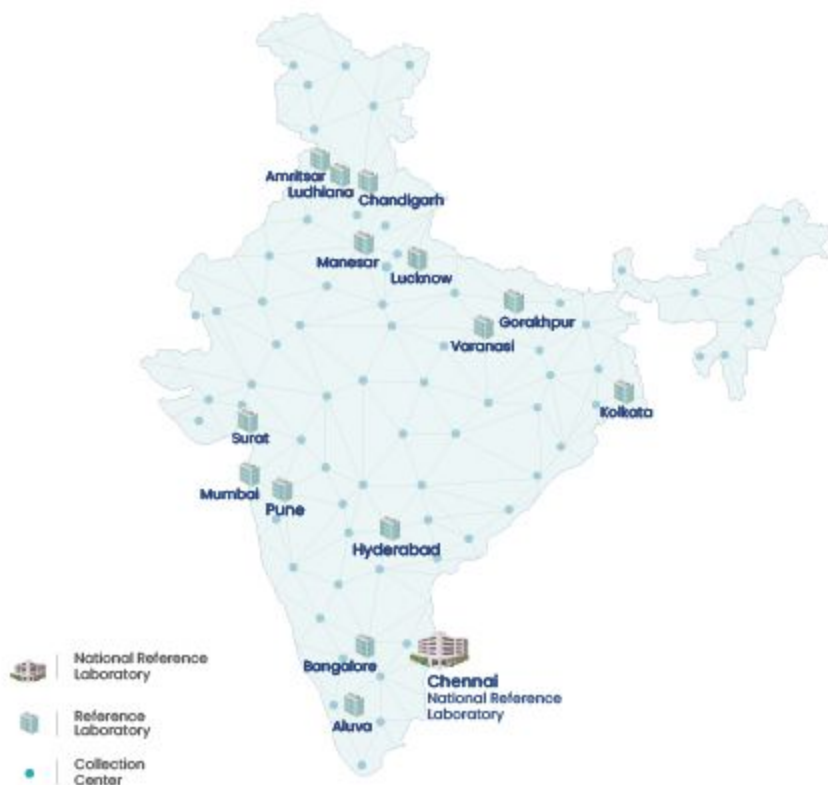


Strong Logistics Across
130 Cities



Wide Test Menu &
NGS Solutions

- Library preparation with Hamilton NGS star for high precision automation
- Novaseq 6000 sequencing platform for deeper & broader coverage
- Ultra rapid secondary analysis with Dragen



- NABL Accredited (ISO 15189)
- Comprehensive Test Menu of 3500+ Tests
- Varied Diagnostics Capabilities
- State-of-the-Art Infrastructure
- Fastest Turn Around Time
- Quality Reports

OUR DIFFERENTIATION

- | | | | |
|------------------------|---------------------------------------|---|------------------------------------|
| Rapid Exome Sequencing | Dedicated Genetic Counseling Services | Hamilton NGS Star for High Precision Automation | Fastest TAT for Maternal Markers |
| Reproductive Genetics | Karyotyping & CMA | Oncology & Transplant | Prenatal Screening of Aneuploidies |
| Infectious | Data and Academic Services | Routine Diagnostics | Fetal Autopsies |

Connect with us to
transform

Be our Partner in Growth and make India healthier.