



INFECTO GENOME LABS

INSIGHTFUL SCIENCE FOR **BETTER CURE**

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WELCOME TO INFECTO GENOME LABS

InfectoGenome Labs LLP is a next-generation Molecular and Genetic Diagnostic Laboratory, dedicated to transforming infectious disease detection and management through the integration of Advanced Molecular Diagnostics and AI-driven Intelligence.

Molecular laboratory testing refers to the detection, amplification, and quantification of pathogen-specific DNA or RNA sequences in patient specimens. Unlike conventional culture or serology, molecular assays provide high sensitivity, specificity, and rapid turnaround, enabling clinicians to make early and accurate decisions.

At InfectoGenome Labs, we perform highly complex molecular testing across infectious diseases, oncology-related genetic mutations, and hereditary conditions. Our scope also includes genotyping, antimicrobial resistance detection, and predictive biomarker studies, ensuring comprehensive patient care.

Headquartered in Hyderabad, Telangana, our facility is equipped with:

- State-of-the-art PCR platforms (including Real-Time PCR and Multiplex PCR).
- AI-supported data analytics for intelligent result interpretation and predictive insights.
- Stringent contamination control measures with dedicated laboratory partitions (sample addition, master mix, amplification, analysis).
- NABL- and ICMR-compliant protocols ensuring international quality standards.

OUR VISION:

- To provide reliable and actionable diagnostic results that directly aid clinical decision-making.
- To ensure timely reporting with a focus on rapid turnaround.
- To continually adopt innovative molecular methods aligned with global best practices.
- To deliver diagnostics with speed, accuracy, and reproducibility at par with international standards.
- To bridge science and healthcare by translating advanced research into real-world medical applications.

OUR MISSION:

- To integrate AI-powered diagnostics for enhanced accuracy, predictive modeling, and data-driven healthcare insights.
- To leverage an expert team with decades of combined experience in molecular diagnostics and clinical microbiology.
- To drive research and development initiatives, contributing to novel diagnostic solutions and improved patient outcomes.
- To employ cutting-edge PCR and molecular platforms with high sensitivity, specificity, and robustness, ensuring the detection of even low-abundance pathogens.

OUR GUIDING PRINCIPLE:

“INSIGHTFUL SCIENCE FOR BETTER CURE”

We believe that the future of diagnostics lies in the synergy of molecular science, artificial intelligence, and clinical expertise. By uniting these forces, InfectoGenome Labs is committed to supporting clinicians, hospitals, and public health systems in delivering faster diagnoses, better treatments, and improved patient care.

CRITICAL ICU PANELS

INFECTO SEPSIS PANEL (IGSP-22)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD

TAT: 24hrs

Gram Positive Bacteria(8): Streptococcus agalactiae, Streptococcus pneumoniae, Group A Streptococcus, Staphylococcus aureus, Staphylococcus spp, Enterococcus faecium Enterococcus faecalis, Streptococcus Specific gene.

Gram Negative Bacteria(11): Escherichia coli, Klebsiella pneumoniae, Pseudomonas aeruginosa, Acinetobacter baumannii, Proteus mirabilis, Salmonella spp, Enterobacter spp, Enterobacteriaceae, Serratia marcescens, Bacteroides spp, Ureaplasma.

Fungai(3): Candida spp. (C. albicans & C. glabrata) Aspergillus spp, PANFUNGAL

INFECTO SEPSIS PANEL WITH AMR (IGSAP-36)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD

TAT: 24hrs

Gram Positive Bacteria(7): Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus pneumoniae, Streptococcus pyogenes, Streptococcus agalactiae, Enterococcus faecium, Enterococcus faecalis.

Gram Negative Bacteria(8): Escherichia coli, Klebsiella pneumoniae, Pseudomonas aeruginosa, Acinetobacter baumannii, Salmonella spp, Neisseria meningitidis, Haemophilus influenzae (A–F), Enterobacter spp.

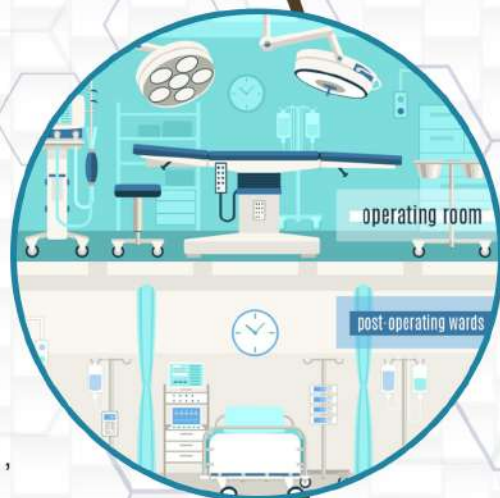
Fungai(3): Candida albicans, Candida auris, Candida lusitanae,

Antimicrobial Resistance (AMR) Genes(14): Beta-lactams (blaCTX-gr1, blaTEM, blaSHV), Carbapenems (blaKPC, blaNDM, blaVIM, blaOXA-48 like, blaIMP), Vancomycin/methicillin (vanA, vanB, mecA),

Trimethoprim/Sulfamethoxazole (sul2, dfrA1, dfrA5),

Universal Detection(2): PAN Bacteria, PAN Fungul,

Viral(1): CMV(Cytomegalovirus), **Parasite(1):** Toxoplasma gondii



CRITICAL ICU PANELS

NEONATAL SEPSIS (IGNSP-8)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD

TAT: 24hrs

Escherichia coli, Group B Streptococcus, Listeria Monocytogenes, Staphylococcus Pneumoniae, Chlamydia trachomatis, haemophilus Influenzae, Klebsiella Pneumoniae

INFECTO AMR PANEL (IGARP-14)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD

TAT: 24hrs

Beta-lactams (blaCTX-gr1, blaTEM, blaSHV), Carbapenems (blaKPC, blaNDM, blaVIM, blaOXA-48 like, blaIMP), Vancomycin/methicillin (vanA, vanB, mecA), Trimethoprim/Sulfamethoxazole (sul2, dfrA1, dfrA5)



SEASON FLU PANELS



INFECTO FLU PANEL (IGFP-4)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

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Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2)

INFECTO BASIC FLU PANEL (IGBFP-3)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

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Influenza A, Influenza A (H1N1), Respiratory Syncytial Virus A/B



INFECTO FLU SUBTYPING (IGFP-7)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2), Respiratory Syncytial Virus A/B, Adenovirus, Covid-19

TAT: 24hrs

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Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2), Respiratory Syncytial Virus A/B, Adenovirus, Covid-19

RESPIRATORY PANELS



INFECTO RESPIRATORY VIRAL PANEL (IGRVP-16)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

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Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2), Respiratory Syncytial Virus A/B, Adeno virus, Rhino Virus, Enterovirus, Bocavirus, HMPV, Parechovirus, Parainfluenza 1, 2, 3, 4, Mycoplasma Pneumoniae

INFECTO RESPIRATORY BACTERIAL PANEL (IGRBP-14)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

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Acinetobacter baumannii, Moraxella catarrhalis, Pseudomonas aeruginosa, Streptococcus pyogenes, Streptococcus agalactiae, salmonella spp. Staphylococcus aureus, Legionella pneumophila, Klebsiella pneumoniae, Chlamydia pneumoniae, Mycoplasma pneumoniae, Streptococcus pneumoniae, Hemophilus influenzae, Bordetella spp



INFECTO RESPIRATORY COMBINED PANEL (IGRCP-37)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

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VIRUS: Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2), Influenza C, Respiratory Syncytial Virus A/B, Adeno virus, Rhino Virus, Enterovirus, Bocavirus, HMPV, Parechovirus, Coronavirus NL63, Coronavirus OC43, Coronavirus HKU1, Coronavirus 229E, Parainfluenza 1, 2, 3, 4, Mumps, Covid-19..

BACTERIA: Acinetobacter baumannii, Moraxella catarrhalis, Streptococcus pyogenes, Streptococcus agalactiae, salmonella spp. Staphylococcus aureus, Legionella pneumophila, Klebsiella pneumoniae, Chlamydia pneumoniae, Mycoplasma pneumoniae, Streptococcus pneumoniae, Hemophilus influenzae, Hemophilus influenza B, Bordetella spp.





RESPIRATORY PANELS

INFECTO RESPIRATORY COMBINED PLUS PANEL (IGRCPP-41)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

VIRUS: Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2), Influenza C, Respiratory Syncytial Virus A/B, Adeno virus, Rhino Virus, Entero Virus, BocaVirus, HMPV, Parechovirus, Coronavirus NL63, Coronavirus OC43, Coronavirus HKU1, Coronavirus 229E, Parainfluenza 1, 2, 3, 4, Mumps, Covid-19.

BACTERIA: Acinetobacter baumannii, Moraxella catarrhalis, Streptococcus pyogenes, Streptococcus agalactiae, salmonella spp Staphylococcus aureus, Legionella pneumophila, Klebsiella pneumoniae, Chlamydia pneumoniae, Mycoplasma pneumoniae, Streptococcus pneumoniae, Hemophilus influenzae, Hemophilus influenza B, Bordetella spp.

Fungal: PAN Fungal, Aspergillus spp, Mucorles, Pneumocystis jirovecii

INFECTO RESPIRATORY COMBINED PLUS WITH AMR GENES (IGRCPPG-54)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

VIRUS: Influenza A, Influenza B, Influenza A (H1N1), Influenza A, (H3N2), Influenza C, Respiratory Syncytial Virus A/B, Adeno virus, Rhino Virus, Entero Virus, BocaVirus, HMPV, Parechovirus, Coronavirus NL63, Coronavirus OC43, Coronavirus HKU1, Coronavirus 229E, Parainfluenza 1, 2, 3, 4, Mumps, Covid-19.

BACTERIA: Acinetobacter baumannii, Moraxella catarrhalis, Streptococcus pyogenes, Streptococcus agalactiae, salmonella spp Staphylococcus aureus, Legionella pneumophila, Klebsiella pneumoniae, Chlamydia pneumoniae, Mycoplasma pneumoniae, Streptococcus pneumoniae, Hemophilus influenzae, Hemophilus influenza B, Bordetella spp.

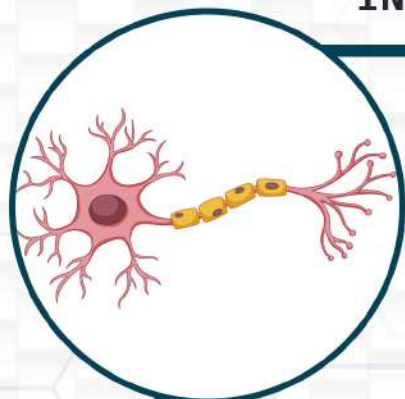
Fungal: PAN Fungal, Aspergillus spp, Mucorles, Pneumocystis jirovecii
AMR GENES: ESBP (blaCTX-MG1, blaTEM, blaSHV), Carbapenems & Colistin (blaKPC, blaNDM, blaVIM, blaOXA-48, blaIMP & mcr-1) Vancomycin (vanA&vanB) MRSA (mecA) Acid-fast bacilli: Mycobacterium Tuberculosis (MTB).



CNS/NEURO PANELS



INFECTO MENINGOENCEPHALITIS PANEL (IGMEP-21)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: CSF

TAT: 24hrs

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Viruses(12): Human adenovirus, Enterovirus, Human parechovirus, Herpes simplex virus 1, Herpes simplex virus 2, Varicella zoster virus (VZV), Human cytomegalovirus (CMV), Human herpesvirus 6, Human herpesvirus 7, Epstein-Barr virus (EBV), Human parvovirus B19, Mumps virus

Bacteria(8): Haemophilus influenzae, Neisseria meningitidis, Escherichia coli, Streptococcus agalactiae, Streptococcus pneumoniae, Listeria monocytogenes, Mycobacterium tuberculosis complex, Non-tuberculous Mycobacterium

Fungi(1): Cryptococcus neoformans/gattii"

INFECTO VIRAL MENINGITS (Neuro-9) (IGVM-11)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: CSF

TAT: 24hrs

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HSV1, HSV2, ENTEROVIRUS, VZV, PARECHOVIRUS, PARVOVIRUS B19, HHV-7, ADENOVIRUS, EPSTEIN-BARR VIRUS, CMV.



INFECTO CNS INFECTION PANEL (IGCP-17)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: CSF

TAT: 24hrs

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Bacteria(5): Neisseria Meningitidis, Staphylococcus aureus, Listeria monocytogenes, Haemophilus Influenzae, Streptococcus pneumoniae.

Viruses(14): HSV 1, HSV 2, Cytomegalovirus, Epstein-Barr Virus, Varicella Zoster Virus, Human Adenovirus, Enterovirus, Parovirus B19, Zika Virus, Human Parechovirus, HHV-6, HHV7, Mycobacterium tuberculosis (MTB), Non-Tuberculosis complex (NTM).

CNS/NEURO PANELS

INFECTO MENINGOENCEPHALITIS PANEL-III (IGMP-12)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Throat/Nasal swab/BAL/Sputum/Lung Tissue/T.A

TAT: 24hrs

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Streptococcus Pneumoniae, Neisseria Meningitidis, Haemophilus influenzae, HSV 1, HSV 2, Enterovirus, Cytomegalovirus, VZV(Varicella Zoster Virus, Candida albicans, Mycobacterium tuberculosis, JEV(Japanese Encephalitis Virus), Cryptococcus Neoformans

INFECTO VIRAL ENCEPHALITIS (IGVEP-7)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: CSF

TAT: 24hrs

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HSV 1, HSV 2, Enterovirus, Cytomegalovirus, VZV(Varicella Zoster Virus), Epstein-Barr virus(EBV), Adenovirus.



INFECTO AUTO IMMUNE ENCEPHALITIS PANEL (IGAIEP-6)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: CSF

TAT: 24hrs

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ANTI-DPPX, ANTI-CASPR2, NMDA (Antiglutamate Receptor against NRI Subunit), AMP A(Antiglutamate receptor) Glu R1, AMP A (Antiglutamate receptor) R2, GABAB Receptor Antibody, LGI1 Antibody,

FEVER PANELS



INFECTO FEVER PANEL (IGFP-10)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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Dengue, Chikungunya, Zika virus, Orientia spp, - Leptospira spp, Coxiella spp (Q-Fever), Rickettsia spp, JEV(Japanese Encephalitis Virus), Salmonella Spp, Plasmodium spp.

INFECTO MALARIA PANEL (IGMP-4)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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P.Falciparum.P.vivix.P.malariae.P.Ovale



VECTOR BORNE DISEASES (IGVDP-2)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE/CSF

TAT: 24hrs

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Dengue Virus, Chikungunya Virus

GASTROENTERITIS/STOMACH INFECTION PANELS

INFECTO GASTROENTERITIS BACTERIAL PANEL (IGGBP-7)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: STOOL

TAT: 24hrs

Camphylobacter coil/jejuni, Salmonella spp, Yersinia enterocolitica, Shigella spp, Clostridium difficile, Vibrio spp, Aeromonas spp

INFECTO GASTROENTERITIS VIRAL PANEL (IGMP-4)

PRINCIPLE/METHOD: Multiplex Real Time PCR

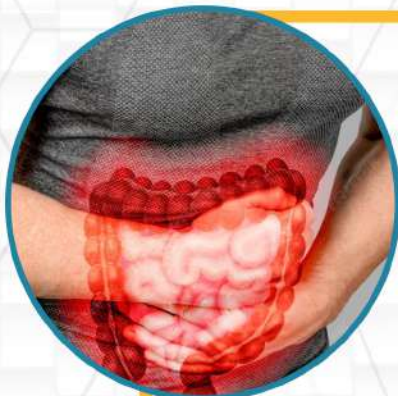
SPECIMEN: STOOL

TAT: 24hrs

Noravirus G1, Noravirus G2, Adenovirus, Astrovirus, Sapovirus, Rotavirus



INFECTO GASTROENTERITIS COMBINED PANEL (IGGC-19)



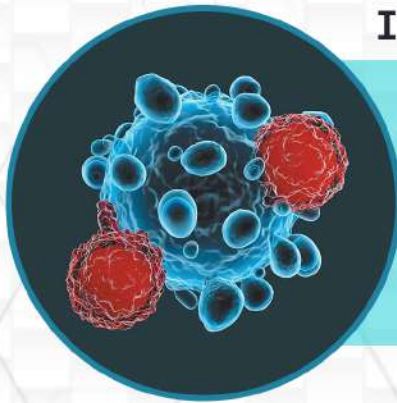
PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: STOOL

TAT: 24hrs

Giardia lamblia, Entamoeba histolytica, Vibrio spp, Blastocystis hominis, Cyclospora cayetanensis, Cryptosporidium spp, Salmonella spp, Noravirus G1, Noravirus G2, Rotavirus, Adenovirus, Astrovirus, Sapovirus, Clostridium diffile hypervirulent, Clostridium difficile toxin B, EIEC/Shigella spp Yersinia enterocolitica, Aeromonas spp, Camphylobacter coil/jejuni.

TRANSPLANT IMMUNOLOGY PANELS



IMMUNOSUPPRESSED PANEL (IGISP-4)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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BK Viral Quantitative, CMV Quantitative, EBV Quantitative

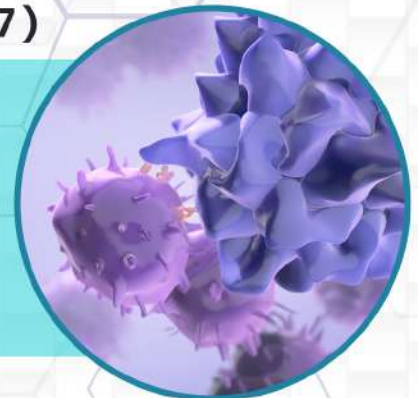
TRANSPLANT PANEL (QUALITATIVE) (IGTP-7)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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HSV 1, HSV2, VZV, CMV, EBV, BK VIRUS, HUMAN PARAVO
VIRUSB19.



HBV (Viral Load) (IGHBVV-1)

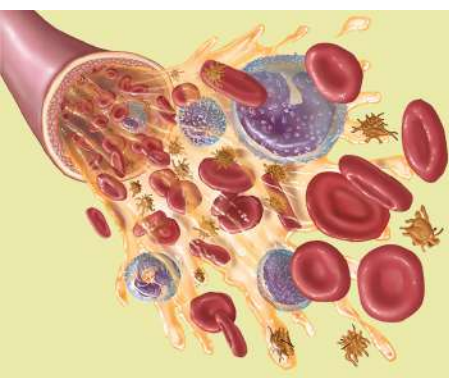
PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

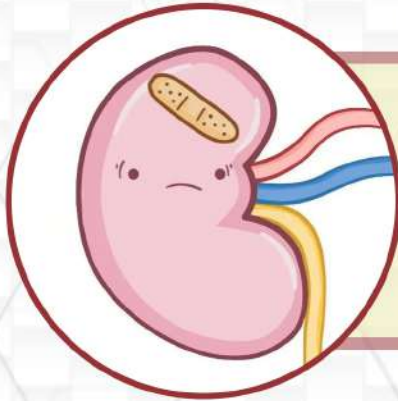
TAT: 24hrs

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Hepatitis B Virus





TRANSPLANT IMMUNOLOGY PANELS



CMV (Viral Load) (IGCMVV-1)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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Cytomegalovirus Quantitative

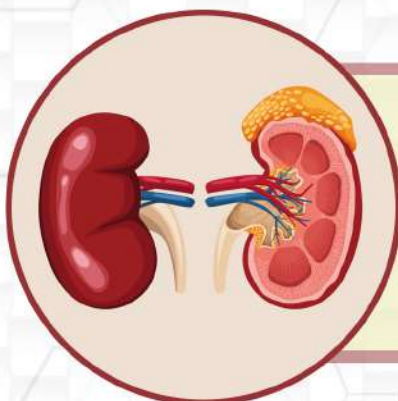
PRE-DIALYSIS PANEL (IGPRDP-3)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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CMV Quantitative,EBV Quantitative,BKV Quantitative



POST-DIALYSIS PANEL (IGPØDP-2)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

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HBV,HCV Quantitative (Viral Load)

URETHRITIS PANELS

STD PANEL (IGSTDP-8)



PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Urethral Swab, Vaginal Swab, Rectal Swab, Urine/Cervical Scrapings

TAT: 24hrs

Chlamydia trachomatis, Neisseria gonorrhoeae, Mycoplasma genitalium, HSV1, HSV2, Gardnerella Vaginalis, Ureaplasma Urealyticum/Parvum, Trichomonas Vaginalis

MTB/NTM

MTB/NTM WITH RIFAMPICIN (IGMTB)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: Sputum/BAL/CSF/Blood

TAT: 24hrs

Mycobacterium Tuberculosis,
Non-Mycobacterium Tuberculosis with Rifampicin.





FUNGAL INFECTION PANELS

INFECTO MYCOPANEL-III (IGMP-13)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: ANY SPECIMEN

TAT: 24hrs

Candida albicans, Candida auris, Aspergillus flavus, Aspergillus fumigatus, Aspergillus niger DNA, Mucor spp, Mucorale, Rhizopus microsporus, Rhizopus oryzae, Rhizomucor pusillus, Absidia corymbifera (Lichtheimiacorymbifera) PAN FUNGAL

INFECTO MYCOPANEL -II (IGMP-4)

PRINCIPLE/METHOD: Multiplex Real Time PCR

SPECIMEN: EDTA BLOOD/URINE

TAT: 24hrs

PAN FUNGAL, Aspergillus SPP, Mucorale, PCP (Pneumocystis jirovecii).

