GENETECH



molecular diagnostics

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| --- | --- | --- | --- | --- |
| **CODE** | **TEST NAME** | **SPECIMEN** | **REPORTING****TIME** | **PRICE (SLR)** |
| **Viral diseases** |
|  ADV | Adenovirus genome detection by PCR | 1-2 ml of whole blood, Throat swabs, Stools, Urine |  2 days | 4500 |
| AVINF | Avian influenza virus detection by RT-PCR | Nasal swab, Throat swab, Nasopharyngeal aspirate |  7-36 hrs | 4500 |
| CHIK | Chikungunya virus detection by RT-PCR | 1-2 ml blood for serum/plasma |  7-36 hrs | 3850 |
| CMV | Cytomegalovirus (HHV5) genome detection by PCR | 1-2ml of whole blood, Minimum of 0.1 ml CSF, 250 mg of biopsy tissue, Urine |  2 days | 3850 |
| DEN | Dengue virus genome detection by RT-PCR | 1-2 ml blood for serum/plasma  |  7-36 hrs | 3850 |
| ENTV | Enterovirus genome detection by RT-PCR (Poliovirus, Coxsackie viruses, Echovirus, New Enteroviruses) | Any biological sample  |  2 days | 4500 |  |
| JE | Japanese encephalitis virus detection by RT-PCR | Minimum of 0.1 ml CSF |  2 days | 4500 | 4200× 3 |
| HSV | Herpes simplex virus (HHV1/2) genome detection by PCR | Any biological sample |  2 days | 4500 |  |
| EPST | Epstein-Barr virus (HHV4) detection by PCR | Any biological sample |  2 days | 4500 |
| FLAV | Flavi virus genome detection by RT-PCR | Minimum of 0.1 ml CSF, 1-2 ml blood for serum/plasma  |  7-36 hrs | 4500 |
| H1N1 | Pandemic (H1N1) 2009 virus detection by RT-PCR | Respiratory specimens – Nasal, Nasopharyngeal and Throat swabs **preferred**  | 7-36 hrs | 4500 |
| HBV | Hepatitis B virus genome detection by PCR | 1-2 ml blood for serum/plasma **preferred**, Tissue |  3 days | 4500 |
| HCV | Hepatitis C virus genome detection by RT-PCR | 1-2 ml blood for serum/plasma **preferred** |  3 days | 4500 |
| HCVTP | Hepatitis C virus genotype detection by RT-PCR followed by DNA sequencing | 1-2 ml blood for serum/plasma **preferred** |  3 weeks | 7500 |
| HIV | Human Immunodeficiency virus -1 (Qualitative) detection by RT-PCR | 1-2 ml of blood for serum/plasma |  2 days | 6500 |
| HPV | Human Papillomavirus genome detection by PCR | Vaginal swab, Penile swab |  2 days | 4500 |
| HZV / VZV | Herpes zoster virus / Varicella zoster virus (HHV3) genome detection by PCR | 1-2 ml of whole blood, Minimum of 0.1 ml CSF, Vesicle fluid (first 3 days after rash), Vesicle swab, Tissue, Skin scrapings (all samples in sterile saline in ice) |  2 days | 4500 |
| INFA | Influenza A viral genome detection by RT PCR  | Respiratory specimens - Nasal and Throat swabs **preferred**, Nasopharyngeal aspirates, Broncho Alveolar Lavage, Tracheal aspirates |  2 days | 4500 |
| INFB | Influenza B viral genome detection by RT PCR  | Respiratory specimens - Nasal and Throat swabs **preferred**, Nasopharyngeal aspirates, Broncho Alveolar Lavage, Tracheal aspirates |  2 days | 4500 |
| MESL | Measles virus genome detection by PCR | Oral fluid, Urine, Throat swab, Whole blood |  2 days | 4500 |
| PAVO | Parvovirus B19 genome detection by PCR | Any biological sample from the suspected site of infection |  2 days | 4500 |
| PI1 | Para influenza 1 genome detection by RT PCR  | Respiratory specimens - Nasal and Throat swabs **preferred**, Nasopharyngeal aspirates, Broncho Alveolar Lavage, Tracheal aspirates |  2 days | 4500 |
| PI2 | Para influenza 2 genome detection by RT PCR  | Respiratory specimens - Nasal and Throat swabs **preferred**, Nasopharyngeal aspirates, Broncho Alveolar Lavage, Tracheal aspirates |  2 days | 4500 |
| PI3 | Para influenza 3 detection by RT PCR  | Respiratory specimens - Nasal and Throat swabs **preferred**, Nasopharyngeal aspirates, Broncho Alveolar Lavage, Tracheal aspirates |  2 days | 4500 |
| RSV | Respiratory syncitial virus detection by RT PCR (HRSV) | Respiratory specimens - Nasal and throat swabs **preferred**, Nasopharyngeal aspirates, Broncho Alveolar Lavage, Tracheal aspirates |  2 days | 4500 |
| RUBL | Rubella viral genome detection by RT PCR  | Throat swabs **preferred,** Nasal swabs, Urine, 1-2 ml of Whole blood, Minimum of 0.1 ml CSF |  2 days | 4500 |
| SARS | SARS virus Detection by RT PCR  | Respiratory specimens – Nasal, Nasopharyngeal and Throat swabs **preferred** |  2 days | 4500 |
| **Bacterial and other infectious diseases** |
| BRUC | *Brucella spp. g*nome detection by PCR | Up to 7 days after clinical onset 1-2 ml Whole blood, 0.5 ml of CSF, Tissue, Urine |  3 days | 4500 |
| CAMP | *Campylobacter* spp. genome detection by PCR | Stools (faeces) |  3 days | 4500 |
| CAND | *Candida SPP. g*enome detection by PCR  | Any biological sample |  3 days | 4500 |
| CANDA | *Candida albicans* genome detection by PCR | Any biological sample |  3 days | 4500 |
| CANDG | *Candida glabrata* genome detection by PCR | Any biological sample |  3 days | 4500 |
| CANDP | *Candida parapsilosis* genome detection by PCR | Any biological sample |  3 days | 4500 |
| CANDT | *Candida tropicalis* genome detection by PCR | Any biological sample |  3 days | 4500 |
| CHLM | *Chlamydia trachomatis* genome detection by PCR | Vaginal swab, Urogenital swab, Vesicle fluid or cells from base of ulcer, Conjunctive, Urine, Nasopharyngeal swabs or any suspected site,  |  3 days | 4500 |
| CPNEU | *Chlamydia pneumoniae* genome detection by PCR  | 1 – 2 ml Sputum, Throat swabs |  3 days | 4500 |
| CHOL | *Vibrio cholerae* genome detection by PCR | Stools (faeces) |  3 days | 4500 |
| ENTB | *Enterobacter* spp. genome detection by PCR  | Any biological sample |  3 days | 4500 |
| FIL | *Wuchereria bancrofti* genome detection by PCR | 1ml night whole blood, 1ml hydrocele fluid, 5ml Chyluria |  3 days | 4500 |
| GONO | *Neisseria gonorrhoea* genome detection by PCR | Urogenital Specimen, Vaginal discharge, Rectal specimen, Urine  |  3 days | 4500 |
| HEIN | *Haemophilus influenzae* genome detection by PCR | Any biological sample |  3 days | 4500 |
| HELI | *Helicobacter pylori*  genome detection by PCR | 200 mg gastric biopsy, 5 ml gastric aspirate |  3 days | 4500 |
| LEGL | *Legionella* spp. genome detection by PCR | Respiratory Specimens |  3 days | 4500 |
| LEI | *Leishmania* spp. genome detection by PCR | **For suspected visceral** **Leishmaniasis** ; 0.5-1 ml lymph node aspirate, 0.5-1 ml bone marrow, 0.5-1ml spleen aspirate, 1-2ml blood , 0.1ml Culture. **For suspected cutaneous Leishmaniasis** ; 0.1-0.5 ml of lesion aspirate, Skin biopsy, Ulcer or nodule, 0.1ml Culture. |  3 days | 4500 |
| LEPT | *Leptospira* spp. genome detection by PCR  | 1-2 ml Whole blood- Up to 7 days after clinical onset, Urine- after 10 to14 days from clinical onset. |  3 days | 4500 |
| MAL | MALP*- Plasmodium* spp. genome detection by PCR | 1-2 ml whole blood (collect after 2-3 hours of the fever peak), 0.5 ml of CSF, Tissue |  3 days | 4500 |
| MALPF-*Plasmodium falciparum* detection by PCR | 3 days |
| MALPV*-Plasmodium vivax* detection by PCR | 3 days |
| MRSA | Methicillin Resistant Staphylococcus Aureus | Any biological sample | 2 days | 4500 |
| MYCO | *Mycoplasma spp.* genome detection by PCR |  Any biological sample |  3 days | 4500 |
| MYCOPN | *Mycoplasma pneumoniae* genome detection by PCR  | Respiratory specimens, 1-2 ml Whole blood |  3 days | 4500 |
| PNEU | *Pneumocystis carinii* genome detection by PCR  | 1-2 ml Sputum, Broncho Alveolar Lavage |  3 days | 4500 |
| SALM | *Salmonella* *enterica* sub species *enterica* genome detection by PCR | Any biological sample |  3 days | 4500 |
| SALMO | *Salmonella* spp genome detection by PCR |  Any biological sample |  3 days | 4500 |
| STAP | *Staphylococcus* spp. genome detection by PCR | Any biological sample, culture, swabs |  3 days | 4500 |
| STREP | *Streptococcus pneumoniae* genome detection by PCR | Any biological sample |  3 days | 4500 |
| SYPL | Syphilis (*Treponema pallidum*) genome detection by PCR | 1-2 ml of Whole blood, 0.5 ml of CSF, Amniotic fluid, Genitourinary ulcer specimens |  3 days | 4500 |
| TB | *Mycobacterium tuberculosis* genome detection by PCR  | Any biological sample from the suspected site of infection. Blood and blood mix samples must be sent with an anticoagulant (EDTA or ACD, **NOT HAPARIN),** Culture samples. |  3 days | 3850 |
| TOXO | *Toxoplasma gondii* genome detection by PCR | 3 ml Amniotic fluid, 3 ml Body fluid, 0.4-1.0 ml CSF, 0.1-0.5 ml Ocular fluid, 1 ml Whole blood, 1 ml Bone marrow, 6-10 ml Urine |  3 days | 4500 |
| TRIC | *Trichomonas vaginalis* genome detection by PCR | Vaginal discharge, Urogenital discharge (swabs), Urine from males – morning first sample. |  3 days | 4500 |
| WHOP | whooping cough –*Bordetella pertusis* detection by PCR | Nasopharyngeal swabs |  3 days | 4500 |
| YERS | *Yersinia enterolitica* genome detection by PCR | Stools (faeces), 1-2 ml whole blood, Lymph nodes |  3 days | 4500 |
| UNIFUN | Universal fungal-detection of any fungal species | Any biological sample |  3 days | 4500 |
| UNIMYCO | Mycobacterium spp. Detection by PCR | Any biological sample from the suspected site of infection. Blood and blood mix samples- with an anticoagulant (EDTA or ACD, **NOT HAPARIN**)**,** Cultures. | 2 days | 4500 |
|  **Genetic disorders** |
| **\***EDS | *Edwards Syndrome (Trisomy 18) detection by PCR* | 3ml of whole blood,  |  2 weeks | 5500 |
| DMD | Duchenne Muscular Dystrophy – 19 Deletion prone exons of the Dystrophin gene will be tested by PCR | 3 ml of whole blood |  1 week | 6500 |
| **\*** DS | Down Syndrome (Trisomy 21) detection by PCR | 3 ml of whole blood |  2 weeks | 5500 |
| **\*** KLIN | Kleinfelter Syndrome (detection of XXY) by PCR | 3 ml of whole blood |  2 weeks | 5500 |
| HEMO | Hemochromatosis (C282Y, H63D and S65C) detection by PCR | 3ml of whole blood,  |  1 week | 5500 |
| **\*** PATA | Patau Syndrome (Trisomy 13) detection by PCR | 3ml of whole blood,  |  2 weeks | 5500 |
| SEXDET | Sex Determination (X and Y chromosomes detection) by PCR  | 1 ml of whole blood |  4 days | 3500 |
| **\*** TS | Turner Syndrome (detection of XO) by PCR | 3ml of whole blood,  |  2 weeks | 5500 |
| βTHAL | β Thalassemia (IVS1-1, IVS1-5, Cd8/9, Cd41/42 and HbE mutations) detection by PCR | 3 ml of whole blood |  1 week | 6500 |
| YCRO | Y Chromosome Microdeletions detection by PCR | 3 ml of whole blood |  1 week | 5500 |
| \*Send two samples of blood (2cc each From the Parents of the Patient. Parents’ profiles are  important in results interpretation under some circumstances.  |
| **Cancer markers** |
| PHIL | Philadelphia Chromosome (bcr-abl translocation) detection by PCR  | 2.5 ml of whole blood  |  1 week | 5500 |
| AML-ETO | AML1-ETO chromosomal translocation | 2.5 ml of whole blood  |  1 week | 5500 |
| TEL-AML1 | TEL-AML1 chromosomal translocation | 2.5 ml of whole blood  |  1 week | 5500 |
| PML-RARa | PML-RARa chromosomal translocation | 2.5 ml of whole blood  |  1 week | 5500 |
| MLL | Myeloid-lymphoid leukaemia (MLL) gene | 2.5 ml of whole blood  |  1 week | 5500 |
| JAK 2  | Point Mutation (p.V617F) ,Janus Kinase 2 gene  | 2.5 ml of whole blood |  1 week | 4750 |
| **DNA typing** |
| ID (Private Case) | DNA Identity by DNA typing | 1 ml of whole blood  |  | 11000 |
| MTT (Court Case) | Maternity testing (Mother & Child) by DNA typing | 1 ml of whole blood |  | 20000 |
| PTT (Court Case) | Paternity testing (Mother, Child & Putative Father) by DNA typing | 1 ml of whole blood  |  | 30000 |
| PTT (Private Case)  | Paternity testing (Mother, Child & Putative Father) by DNA typing | 1 ml of whole blood  | One month | 33000 |
| PTT (Private Case)  | Paternity testing (Mother, Child & Putative Father) by DNA typing | 1 ml of whole blood  | 2 weeks | 37500 |
| PTT (Foreign Case) | Paternity testing (Mother, Child & Putative Father) by DNA typing | 1 ml of whole blood  | One month | 37500 |
| PTT (Foreign Case) | Paternity testing (Mother, Child & Putative Father) by DNA typing | 1 ml of whole blood  | 2 weeks | 42000 |
| GMO | Genetically modified organisms /food detection by PCR | **Pleases inquire** |  5 days |  9500 |

NOTE: If there is a delay in reporting due to an unavoidable circumstance customer is informed by the senior scientist.

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**Sample collection guide**

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| **Sample/Specimen** | **Collection** | **Transport** | **Storage** |
| Whole blood | 1-2 ml of blood in ACD or EDTA ( imp- not in Heparin ) delivered within 6 hours of collection | Up to 6 hours at room temperatureAt +40C (on ice) if transported for more than 6 hours | At +40C (on ice) for up to 7 days |
| Clotted Blood | 1-2ml of blood delivered within 6 hours of collection | Upto 6 hours at room temperatureAt +40C (on ice) if transported for more than 6 hours | At +40C (on ice) for up to 7 days |
| Swabs (Nasal,Vaginal,Throat, etc) | Collected in to a sterile container and delivered within 6 hours | Up to 6 hours at room temperatureAt +40C (on ice) if transported for more than 6 hours | At +40C (on ice) for up to 7 daysAt -700C for more than 7 days |
| Stool / Urine | Collected in to a sterile container and delivered within 6 hours | Upto 6 hours at room temperatureAt +40C (on ice) if transported for more than 6 hours | At +40C (on ice) for up to 7 daysAt -700C for more than 7 days |
| Body Fluids (CSF, Bronchoalveolar Lavage, etc) | Collected in to a sterile continer and delivered within 6 hours ( If contaminated with blood add ACD or EDTA ) | Upto 6 hours at room temperatureAt +40C (on ice) if transported for more than 6 hours | At +40C (on ice) for up to 7 daysAt -700C for more than 7 days |
| Bone Marrow | Collected in to a sterile container having ACD or EDTA and delivered within 6 hours | Upto 6 hours at room temperatureAt +40C (on ice) if transported for more than 6 hours | At +40C (on ice) for up to 7 days |



Blood and blood mix samples must be sent with an anticoagulant

 (EDTA or ACD, **NOT HEPPARIN)**

DNA typing for family relationships and forensic purposes is done

with the voluntary, informed, written consent of the persons tested

Where the person is a minor (under 18 years of age), the voluntary,

informed, written consent of the legal guardian shall be obtained

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