



TEST	OFFERED FOR	SAMPLE TYPE	TAT (IN DAYS)	COST (IN AED)
GENETIC DISEASE / MUTATION DIAGNOSIS				
Alpha Thalassemia (Line Probe Assay)	For the detection of 21 common mutations of Alpha globin defects found in Mediterranean, Middle Eastern and Southeast Asian countries.	W. Blood EDTA	3	1000
Beta Thalassemia (Line Probe Assay)	For the detection of 22 common mutations of Beta globin defects found in the Middle East and India.	W. Blood EDTA	3	1000
HLA B – 27 PCR (PCR based)	For the detection of Ankylosing spondylitis and Uveitis.	W. Blood EDTA	2	570
Thrombophilia Panel (Real Time PCR)	For coagulation anomalies - Factor V mutation, Factor II Mutation, MTHFR mutation.	W. Blood EDTA	7	1200
INFECTIOUS DISEASES				
Comprehensive Viral Flu Panel (Real Time PCR)	For the detection of 21 pathogens: Influenza A, Influenza B, Influenza A H1N1, Rhinovirus, Coronavirus NL63, Coronavirus 229E, Coronavirus OC43, Coronavirus HKU1, Parainfluenza 2, Parainfluenza 3, Parainfluenza 4, Parainfluenza 1, Human metapneumovirus A/B, Bocavirus, Mycoplasma pneumonia, RSV A/B; Adenovirus, Enterovirus, Parechovirus	Swab in VTM (Frozen)	4	695
Chlamydia Trachomatis & Neisseria Gonorrhoeae (CT/NG) Real Time PCR	For the detection of Chlamydia trachomatis (CT) & Neisseria gonorrhoeae (NG) by PCR	Swabs, Thin Prep, Urine	3	500
HBV PCR Quantitative (Real Time PCR)	For the detection of HBV infections and to monitor the viral load.	Frozen plasma EDTA / Serum	3	285
HBV Genotyping (PCR - Hybridization)	For the detection of genotypes (A to J) of HBV infections.	Frozen plasma EDTA / Serum	7	735
HCV PCR Quantitative (Real Time PCR)	For the detection of HCV infections and to monitor the viral load.	Frozen plasma EDTA / Serum	2	595
HCV Genotyping (PCR - Hybridization)	For the detection of genotypes HCV-1, HCV-2, HCV-3, HCV-4, HCV-5 and HCV-6 of HCV infections.	Frozen plasma EDTA / Serum	7	755
HPV Array (Genotyping) (PCR - Hybridization)	For the detection of Genotype 17 high-risk HPV subtypes, Genotype 16 low-risk HPV subtypes and rare HPV subtypes.	Thin Prep	3	500
HIV Viral Load (Real time PCR)	For the detection of HIV infections and to monitor the viral load.	Frozen plasma EDTA / Serum	2	660
Mycobacterium Tuberculosis/ Rifampin Resistance (MTB/RIF) (Real time PCR)	For the detection of Mycobacterium tuberculosis infections.	Swabs, Sputum, Urine, BAL, PF, CSF, PUS	3	225
Sexually Transmitted Disease Panel (PCR - Hybridization)	For the detection of Chlamydia trachomatis, Neisseria gonorrhoeae, Mycoplasma genitalium, Ureaplasma urealyticum, Ureaplasma parvum, Trichomonas vaginalis, Mycoplasma hominis, HPV type 6, HPV type 11, HSV type 1&2	Swabs, Thin Prep, Urine	3	925
NEXT GENERATION SEQUENCING (NGS)				
NIPT (Non-Invasive Prenatal Testing)	For the detection of Trisomy 21, 18, 13 and Sex determination of fetus using pregnant women's blood	W. Blood in special tube	7	3250
Pre Implantation Genetic Diagnosis	For the detection of Chromosomal anomalies in embryos before implantation.	Embryo Biopsy / Chorionic villus biopsy	7	2000

Thumbay Institute of Precision Medicine & Translational Research



- ✓ College of American Pathologist (CAP) certified Molecular Biology Laboratory
- ✓ Advanced Pre-PCR, PCR and Post-PCR labs
- ✓ Real Time PCR Facility – ABI 7500 Fast & Gene Xpert
- ✓ Sanger Sequencing Laboratory
- ✓ Next Generation Sequencing Laboratory with Ion S5XL system
- ✓ Advanced Gene Editing Laboratory
- ✓ State-of-the-art Molecular Biology facility for Academic and Industry Research Projects



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