

## MOLECULAR BIOLOGY

- **Viral Infections:**
  - FLAVI VIRUS
  - Flu VIRUS by PCR
  - H<sub>1</sub>N<sub>1</sub> by PCR (Swine Influenza Virus)
  - HBV (Quantitative) by PCR
  - HCV (Quantitative) by PCR
  - HCV Genotyping by PCR
  - HHV<sub>8</sub> or HHV<sub>8</sub>
  - HIV-I (Quantitative) by PCR
  - HIV-II (Quantitative) by PCR
  - HIV I+II (Quantitative) by PCR
  - HTLV I & II [Human T-cell Lymphotropic Virus]
  - Human Metapneumonia virus
  - HPV Human Papilloma Virus
  - Norovirus Geno Group I&II
  - Rotavirus
  - Rotavirus + Adenovirus
  - Coxsackie virus by PCR
  - Enterovirus By PCR
- **Bacterial Infections:**
  - Chlamydia + Neisseria by PCR
  - Gardnerella vaginalis by PCR
  - MRSA, by PCR
  - Mtb/RIF By PCR
  - Mycobacterium tuberculosis (T.B.) by PCR
  - Neisseria gonorrhoea by PCR
  - STD-<sup>10</sup> by PCR (Sexual Transmitted Diseases)
- **Cytogenetics/Karyotyping:**
  - Chromosomal Study- Blood (Karyotyping)
  - Chromosomal Study-Special (Karyotyping) (AF/BM/CVS/D)
  - FISH (Fluorescence In Situ Hybridization) Panels (X,Y, 13, 18, 21, Digeorge, Miller dieker, Prader – Willi, combinations)
- **Next-Generation Sequencing (NGS):**
  - Whole Exome Sequencing (WES)
  - Whole Genome Sequencing (WGS)
- **Molecular Genetics / DNA Testing:**
  - Alpha Thalassaemia by PCR
  - Alpha Thalassemia Gene sequencing
  - Alzheimer Gene screen
  - Androgen Receptor
  - β-Thalassaemia by PCR
  - BCL I&II
  - BCR-ABL (PCR)
  - BRCA<sup>1</sup> & BRCA<sup>2</sup>
  - Cardiovascular Disease Mutations-CVD-<sup>12</sup> by PCR
  - Celiac disease gene
  - CLL Panel / GLI:(<sup>13</sup>q<sup>13</sup>), ATM: (<sup>15</sup>q<sup>22</sup>), p<sup>53</sup>: (<sup>17</sup>p<sup>13</sup>), DLEU: <sup>13</sup>q<sup>14</sup>

- Congenital Adrenal Hyperplasia (PCR)
  - Congenital absence of vas deference
  - Congenital Deafness screen
  - Colon cancer
  - Cystic Fibrosis- $\Delta F508$  by PCR
  - Cystic Fibrosis (Full CFTR Gene)
  - Familial Mediterranean Fever (FMF) by PCR (12 Mutations)
  - FII Prothrombin by PCR
  - FLT3
  - FV Cambridge Gene (R377T) by PCR
  - FV Hong Kong Gene by PCR
  - FV Leiden –  $\Delta 350$  (Activated Protein C) by PCR
  - FV (Codon 1054) by PCR
  - FV HR23A Aplotype (Codon 1054) by PCR
  - FXIII by PCR
  - Fragile X Syndrome by Sequencing
  - FRIEDRICH's ATAXIA
  - GAD Abs (Anti Glutamic Acid Decarboxylase)
  - Genetic screen full sequence (up to 2, 3-10, more than 10 genes)
  - Hearing Loss Panel
  - HLA (A,B,C, DR) by PCR
  - HLA B\*57 by PCR
  - HLA B\*27 by PCR
  - HLA DQ by PCR
  - HLA DR by PCR
  - Homocysteine Gene (MTHFR – C677T & A1294C) by PCR
  - Huntington Disease
  - IGR (idiopathic growth retardation)
  - Intersex
  - Lactose intolerance by PCR
  - MTHFR – C677T by PCR (Homocystein Gene)
  - MTHFR – A1294C by PCR
  - Myotonic Dystrophy
  - Neonatal Haemoglobinopathies
  - NIPT (Non-invasive Prenatal Testing: 13,18,21,X,Y) by NGS
  - ONCOblot
  - ONCOsure
  - Osteogenesis Imperfecta screen
  - Parkinson screen
  - Paternity Testing (STR's)
  - Peripheral Neuropathy Panel
  - PML-PARa
  - SRY (Sex-determining Region Y protein)
  - Sibling Testing (STR's)
  - Celiac disease gene
- **Pregnancy & Prenatal Screening:**
    - 1st Trimester Prenatal Interpretive Screening
    - Down Syndrome Dual Test 1st Trimester (PAPP-a, Free  $\beta$ -HCG)
    - Down Syndrome (AFP,  $\beta$ - HCG, FE $\alpha$ )(Triple Test)

- Down Syndrome (AFP,  $\beta$ -HCG, FE $\alpha$ , Inhibin A) (Quadruple Test)
  - Integrated Test (wk 12 + wk 16)
  - Quadruple Test
  - PAPP-a
  - Placental Growth Factor (PIGF)
  - Soluble Fms-like Tyrosine Kinase-1 (sFlt-1)
  - sFlt-1/PIGF Ratio
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**Remarks Key (as provided by you):**

- **Dy/A:** Daily (or As Directed/Available)
- **S:** Serum
- **ABS:** Serum (presumably Acute Blood Sample)
- **U:** Urine
- **24U:** 24-hour Urine
- **EWB:** EDTA Whole Blood
- **HWB:** Heparin Whole Blood
- **CP:** Citrated Plasma
- **EP:** EDTA Plasma
- **HP:** Heparin Plasma
- **AF:** Amniotic Fluid
- **BF:** Bronchial Fluid / Body Fluid
- **BM:** Bone Marrow
- **CSF:** Cerebrospinal Fluid
- **D:** Direct Sample (e.g., discharge)
- **DB:** Dried Blood Spot
- **EnS:** Endocervical Swab
- **ES:** Eye Swab
- **FP:** Fluoride Plasma
- **GnS:** Genital Swab
- **HVS:** High Vaginal Swab
- **LBC:** Liquid Based Cytology
- **NS:** Nasal Swab
- **SF:** Synovial Fluid / Seminal Fluid
- **SP:** Sputum
- **ST:** Stool
- **US:** Random Urine Sample (or unspecified urine)
- **CWB:** Cord Whole Blood
- **LI-HEP:** Lithium Heparin
- **ASP:** Aspirate
- **Vacutec:** Vacutainer tube for collection
- **Call:** Call for details/appointment/specific instructions.