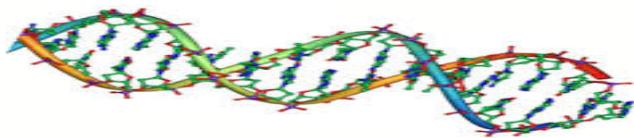


# **Safety Molecular Pathology Laboratory**



[www.themping.org](http://www.themping.org)

**Assay Catalogue for 2020 Edition**



**A Lab for Labs**

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### IMPORTANT INFORMATION FOR ALL CUSTOMERS

1. Our workdays are Mondays to Fridays 8:00 am to 5.30pm. Any sample received after **4.00 pm** would be counted as received on the next day.
2. Weekends (Sat & Sun) are not inclusive in our Turnaround Time (TA). The lab is open on Saturdays **8 am to 2 pm** for sample collection and emergency testing
3. **Turnaround times are estimated. We do our best to keep to them but sometimes lab investigations may take longer time.**
4. Customers can ship samples to us through reliable Public Transport. **Call us once you ship samples. We recommend the use of Public Transporters e.g Peace Mass Transit etc; because they deliver on same day.**
5. Ensure that you complete a **Test Request Form** stating the tests you want, the patient's name, age and sex and your hospital.
6. Ensure that you include your email address for receiving results and your phone number to contact you.
7. **For all payments to SMPL for lab tests, use the Keystone Account.**
8. All test requests must be accompanied with bank deposit slips showing payment
9. You can pay for your tests with the bank details below:

**GTB Plc**

Account Name: Safety Molecular Path Lab; Account Number: **0024333695**

**10. If you require any other bank, contact the Customer service.**

**11. Our Offices**

Enugu	07088938727, 08037435616 Email: <a href="mailto:smpl44rangers@gmail.com">smpl44rangers@gmail.com</a>	Plot 44 Rangers Avenue, Independence Layout, Enugu
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Benin City	09076109643, email: <a href="mailto:smplbenin@gmail.com">smplbenin@gmail.com</a>	195 Ugbowo Lagos Road, Benin, Edo State.
Owerri	09027400044, email: <a href="mailto:smplowerri@gmail.com">smplowerri@gmail.com</a>	Km 5 Aba Owerri Express Way, Theresa Ohaeri Memorial Hospital, Agbala Owerri

If any telephone line is not reachable, call 07063415385 or 08034274763

**12. Contacting Us**

Customer Service	08037435616, 07088938727,
Complaints	07063415385 or 07088938727
Website	<a href="http://www.themping.org">www.themping.org</a>
Complaints by Email	<a href="mailto:admin@themping.org">admin@themping.org</a>
Lab Email	<a href="mailto:smpl44rangers@gmail.com">smpl44rangers@gmail.com</a>
CEO Email	<a href="mailto:e.nna@themping.org">e.nna@themping.org</a>
Research Work	08084896410
Research work email	<a href="mailto:e.nna@themping.org">e.nna@themping.org</a>
WhatsApp for all inquiries	07063415385

**13. Abbreviations:**

PB	Peripheral blood
BM	Bone marrow aspirate
FFPE	Formalin, fixed paraffin embedded tissue;
K2EDTA	Dipotassium EDTA at a concentration of 1.50 mg per ml of blood is the anticoagulant of choice for molecular assays.
TSC	Trisodium Citrate, at a concentration of 3.2 g% with 5% HEPES is the anticoagulant of choice for coagulation assays: 0.5ml of anticoagulant plus 4.5 ml of blood for coagulation studies
BFS	Buffered Formalsaline
<b>If you are not sure of sample type, please ask before sampling.</b>	

### **Section A: Molecular Diagnostics (DNA Based testing)**

<b>Test ID</b>	<b>Test Name</b>	<b>Sample Required</b>	<b>Indication</b>	<b>Cost in Naira</b>	<b>TA time (Days)</b>
<b>MD001</b>	<b>BCR-ABL1 transcript quantitation</b>	10ml of PB or BM in EDTA	CML & ALL	<b>20000</b>	5
<b>MD002</b>	<b>Tyrosine Kinase Domain TKD mutation Analysis</b>	10ml of PB or BM in EDTA	CML & ALL therapeutic monitoring	<b>50,000</b>	7
<b>MD003</b>	<b>PML: RARA transcript quantitation</b>	10ml of PB in EDTA	Acute promyelocytic leukemia	<b>20000</b>	4
<b>MD004A</b>	<b>JAK2 V617F mutation (exon 14)</b>	5ml of PB in EDTA	Ph-negative MPD	<b>30000</b>	4
<b>MD004B</b>	<b>JAK2 Exon 12 mutation</b>	5ml of PB in EDTA	Ph-negative MPD	<b>30000</b>	4
<b>MD004C</b>	<b>Calreticulin CALR exon 9 mutation</b>	5ml of PB in EDTA	Ph-/ Jak2-negative MPN	<b>30000</b>	4
<b>MD005</b>	<b>FIP1L1-PDGFRα transcript quantitation</b>	10ml of PB in EDTA	CEL, Hyper-eosinophilic syndrome, Eos-MP	<b>20000</b>	5
<b>MD006</b>	<b>MTHFR 677 C&gt; T mutation</b>	10ml of PB in EDTA	Venous thrombosis, arterial disease	<b>20000</b>	4
<b>MD007</b>	<b>E2A-PBX1 quantitation</b>	10ml of PB/BM in EDTA	Paediatric and Adult Precursor B-ALL	<b>20000</b>	5
<b>MD008</b>	<b>Haemoglobin Genotype by PCR (SCD-PCR or S gene detection)</b>	5ml of PB in EDTA	SCD and alpha-Thalassaemia	<b>40000</b>	5
<b>MD009</b>	<b>Beta thalassaemia mutations (Beta globin mutations)</b>	5ml of PB in EDTA	Beta thalassaemia	<b>30,000</b>	8
<b>MD010</b>	<b>Factor V Leiden R506Q mutation</b>	5ml of PB in EDTA	Thrombophilia	<b>20000</b>	5
<b>MD011</b>	<b>Prothrombin G20210A mutation</b>	5ml of PB in EDTA	Thrombophilia	<b>20000</b>	5
<b>MD012</b>	<b>Prostate Cancer Antigen 3 (PCA3) test</b>	20ml of DRE urine	Prostate cancer	<b>30000</b>	8
<b>MD013</b>	<b>TMPRSS2-ETV/ERG fusion genes</b>	20ml of DRE urine /FFPE	Prostate cancer	<b>30000</b>	8
<b>MD014</b>	<b>HBV DNA Load (HBV Load)</b>	Plasma/Serum	Hepatitis B infection	<b>20000</b>	4
<b>MD014B</b>	<b>HBV Panel (including load, genotype and serology by ELISA)</b>	Plasma/Serum	Hepatitis B infection	<b>80,000</b>	5
<b>MD015</b>	<b>HPV DNA test</b>	Cervical Swab	Cervical Cancer	<b>20000</b>	5

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
MD016	HCV RNA quantitation (load)	Plasma/Serum	Hepatitis C infection	22000	4
MD016B	HCV Panel	Plasma/Serum	Hepatitis C infection	53,000	5
MD017	CMV DNA quantitation	Plasma/Serum	CMV infection	20000	4
MD018	HTLV-I and II quantitation	Plasma/Serum	Adult T-cell leukemia/lymphoma	20000	8
MD019	K-Ras mutation (codon 12 and 13)	5 ml of PB in EDTA/FFPE block	Colorectal cancer	40,000	14
MD020	G6PD mutations (DNA test)	5ml of PB in EDTA	Haemolytic anaemia	20,000	10
MD021	Chimerism PCR	5ML of PB in EDTA from host (pre-BM	Transplants/BMT/HSCT/G VHD	70,000	15
MD022	API-MAL T1 fusion gene	FFPE tissue blocks	Gastric lymphoma	20,000	10
MD023	HUMARA PCR-X chromosome inactivation	5ml of PB in EDTA	Clonality studies	30000	15
MD024	UGT1A1 PCR	5ml of PB in EDTA	Gilbert's syndrome	30000	15
MD023	T Cell Receptor TCR Beta/Gamma gene rearrangement Analysis	10ml of PB in EDTA	T cell Lymphoproliferative disorders/Clonality	65,000	10
MD026	Clostridium botulinum types A, B, E and F	Food and / or faeces	Botulism/Clostridium infection	40,000	10
MD027	AXIN2 and ESPT11 expression	Breast tissue FFPE	Breast cancer	40,000	14
MD028	BCR-FGFR1 quantitation	10ml of PB in EDTA	Atypical CML (BCR-ABL negative)	25,000	10
MD029	C282Y, H65D and S65C mutations	Liver biopsy or blood sample	Haemochromatosis	50,000	14
MD030	MLL-AF4 quantitation	5-10ml PB/BM in EDTA	Paediatric and Adult Precursor B-ALL	25,000	10
MD031	TEL-AML 1 quantitation	5-10ml PB/BM in EDTA	Precursor B-ALL	25,000	10
MD032	SIL-TAL 1 quantitation	5-10ml PB/BM in EDTA	Precursor T-ALL	25,000	10
MD033	CBFB-MYH11 (Inversion 16) quantitation	5-10ml PB/BM in EDTA	Diagnostic and MRD for AML	25,000	10

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
MD034	AML 1-ETO quantitation	5-10ml PB/BM in EDTA	MRD for AML	25,000	10
MD035	HER2 copy number variation	Tissue block/blood	Breast cancer	20,000	10
MD036	Malaria DNA detection	5ml of PB in EDTA	Malaria infection	25,000	5
MD037	Malaria genome quantitation	5ml of PB in EDTA	Quantitation of malaria in blood	30000	10
MD038	BRCA 1 and 2 mutation	5-10ml of blood in EDTA	Breast cancer susceptibility testing	95,000	20
MD039	TP53 mutation	5ml of blood in EDTA	Cancer	30,500	15
MD040	Mycobacterium Tuberculosis PCR/ TB PCR / GeneXpert	Sputum/tissue block/blood	Tuberculosis	25000	5
MD041	HBV DNA Genotype	5ml PB in EDTA/Plasma/Serum	Hepatitis infection	25000	5
MD042	HCV RNA Genotype	5ml PB in EDTA/Plasma/serum	Hepatitis infection	27000	5
MD043	Cyclin D1 over-expression t (11:14) q(13:32)	10ml of PB in EDTA tube	Multiple myeloma	40,000	10
MD044A	Paternity testing per unit (father/one child) using 24 DNA markers	Buccal swab. We can also accept blood samples.	Paternity/maternity- using 21 DNA markers	80,000	8
MD044B	Additional Child for paternity	Buccal swab	Paternity or maternity	40,000	8
MD045	HLA typing- SBT method (DNA Sequence Based typing)	5 ml of PB in EDTA	BMT and PBSCT transplant	180,000	8
MD046	H1N1 quantitation	Nasal/Throat swab/aspirates	H1N1 Influenza	20000	10
MD047	MRSA DNA detection	Swabs, urine	MRSA infection	20000	5
MD048	Salmonella DNA detection	Stool or blood	Typhoid infection	20000	4
MD049	DISC 1 and DISC2 gene analysis	Blood/Saliva	Schizophrenia/trait	20000	15
MD050	EWS/FLI-1 fusion gene	FFPE tissue	Ewing's Sarcoma	30,000	10
MD051	Aflatoxin detection (nor-1 gene)	Plants/food/blood etc	Aflatoxin infestation	20000	5
MD052	Neisseria meningitidis DNA detection	CSF/Blood/Serum	Bacterial meningitis and septicaemia	20000	5

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
MD053	Haemophilus influenzae DNA detection	CSF/Blood/Serum	Bacterial meningitis and septicaemia	20000	5
MD054	Streptococcus pneumoniae PCR detection	CSF/Blood/Serum	Bacterial meningitis and septicaemia	20,000	10
MD055	Dengue virus quantitation	Blood/Serum/Plasma	Viral haemorrhagic fever	20,000	5
MD056	Syphilis ( <i>Treponema pallidum</i> ) DNA detection	Swab, Blood, urine	Syphilis	20,000	5
MD057	Chlamydia trachomatis DNA detection	Swab/urine	Chlamydia	20,000	10
MD058	HIV RNA quantitation (HIV load)	Plasma/Serum	HIV infection	20,000	5
MD059	Trichomonas vaginalis DNA detection	Swab/urine	T. vaginalis infection	20,000	6
MD060	Mycoplasma testing (U. Urealyticum, M.hominis and M.genitalis)	Swab/urine	Mycoplasma infection	20,000	5
MD061	Epstein Barr Virus (EBV) quantitation	Plasma/Serum	EBV infection	20,000	5
MD062	Candida species DNA detection	Swab, Blood, urine	Candidiasis	20,000	10
MD063	Neisseria gonorrhiae DNA detection	Swab, Blood, urine	Gonorrhoe infection	20,000	5
MD064	Streptococcus agalactiae (BGS)-DNA detection	Swab/urine/blood/diary	BGS infection	20,000	10
MD065	Lassa fever virus quantitation	Swab, aspirate, blood	Lassa fever/viral haemorrhagic fever	20,000	5
MD066	Ebola virus quantitation	Blood	Viral haemorrhagic fever	80,000	5
MD067	Marburg virus quantitation	Blood	Viral haemorrhagic fever	30,000	5
MD068	ADAMTS 13 transcript quantitation	Blood	TTP	25000	10
MD069	Mycoplasma pneumoniae -DNA detection	Blood, aspirate	Community associate pneumonia CAP	25000	10
MD070	Trypanosome-DNA detection	Blood	Trypanosomiasis	25000	5
MD071	Rift valley fever virus-quantitation	Blood	Viral haemorrhagic fever (VHF)	20,000	5

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
MD072	Yellow fever virus quantitation	Blood	Viral haemorrhagic fever	20,000	5
MD073A	Crimean-Congo haemorrhagic fever virus quantitation	Blood	Viral haemorrhagic fever	30,000	5
MD073B	Japanese Encephalitis Virus (JEV NAT)	Blood	Encephalitis	40,000	6
MD074	Herpes simplex 1 and 2- DNA quantitation	Blood and Saliva	Herpes virus infection	30,000	5
MD075	HLA-B*57:01 screening	5 ml of PB in EDTA	Prior to Abacavir therapy/hypersensitivity	20,000	5
MD076	HLA-B*27 alleles	5 ml of PB in EDTA	Ankylozing Spondylitis	40,000	5
MD077	HLA- DQA1*02, DQB1*03 and DQB1*05	5 ml of PB in EDTA	Coelic disease	40,000	5
MD078	PGX-HIV Strip Assay (HIV Genotype/Resistance) assay	5 ml of PB in EDTA	Genotyping HIV for HAART response	80,000	8
MD079	PGX-Thrombo Strip Assay (genetic thrombotic risk screen)	5 ml of PB in EDTA	CYP2C9 and VKORC1 variants in anticoagulant dosing	40,000	10
MD080	PGX-5FU Strip Assay (5 Fluorouracil toxicity screen)	5 ml of PB in EDTA	DPD allelic variant IVS14+1G->A in 5-FU toxicity	40,000	10
MD081	BRAF V600E mutation	5 ml of PB in EDTA/FFPE block	Metastatic melanoma/vemurafenibe therapy	40,000	10
MD082	TMPT genetic testing (238 G>C, 460 G>A, 719 A> G)	5 ml of PB in EDTA/FFPE block	For thiopurine therapeutics	40,000	10
MD083	ApoE Strip Assay	5 ml of PB in EDTA	Alzheimer's disease (Apo E2, E3 and E4)	40,000	10
MD084	Lactase and Aldolase B gene mutation screening	5 ml of PB in EDTA	Sugar intolerance	40,000	10
MD085	Cardiovascular CVD Strip Assay	5 ml of PB in EDTA	12 mutations associated with CVD	50,000	10

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
MD086	<b>APOL1 gene mutation (G1 and G2) screening</b>	5 ml of PB in EDTA	Chronic kidney disease CKD	<b>40,000</b>	10
MD087	<b>CTX-M typing for ESBL (Extended Spectrum Beta lactamases)</b>	Bacteria culture	Extended Spectrum Beta lactamases/ drug resistance	<b>30,000</b>	10
MD088	<b>TEM and SHV typing for ESBL</b>	Bacteria culture	Extended Spectrum Beta lactamases/ drug resistance	<b>30,000</b>	10
MD089	<b>Alpha thalassaemia mutations (Alpha globin mutations)</b>	Blood in EDTA	Alpha thalassaemia	<b>40,000</b>	10
MD090	<b>Immunoglobulin Heavy Chain IGH Rearrangement Analysis</b>	5ml of Blood in EDTA	B Cell Neoplasms/Clonality	<b>50,000</b>	10
MD091	<b>Microsatellite Instability MSI testing</b>	FFPE Block	Colorectal cancer	<b>50,000</b>	10
MD092	<b>P13K mutation analysis</b>	FFPE Block	Molecularly targeted therapy for various cancers	<b>50,000</b>	12
MD093	<b>EGFR mutation analysis</b>	FFPE Block	Molecularly targeted therapy for various cancers	<b>50,000</b>	12
MD094	<b>Bacillus cereus and Bacillus subillis typing</b>	Bacterial culture in slant	Microbiological applications	<b>35,000</b>	10
MD095	<b>Streptococcus mutans typing</b>	Bacterial culture in slant	Microbiological applications	<b>20,000</b>	10
MD096	<b>Micrococcus luteus typing</b>	Bacterial culture in slant	Microbiological applications	<b>20,000</b>	10
MD097	<b>Escherichia coli typing</b>	Bacterial culture in slant	Microbiological applications	<b>20,000</b>	10
MD098	<b>Microfilaria DNA test</b>	12 noon, 12 mid night and 2 am PB in EDTA	Microfilaria confirmation. This is different from screening tests.	<b>20,000</b>	5
MD099	<b>Connexin 26 (GJB2) mutation screening</b>	5 ml of PB in EDTA	Congenital deafness	<b>20,000</b>	10

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
MD100	Sex determination (by DNA analysis)	Swab or blood in EDTA	Sex determination	70,000	12

### Section B: Hepatitis Serology Testing (HTS): All HTS are ELISA tests

HTS101A	HBsAg (ELISA)	Plasma/Serum	Hepatitis B infection	6,000	2
HTS101B	HBsAg titre quantitation (qHBsAg in iU/ml)	Plasma/Serum	Hepatitis B infection	6,000	2
HTS101C	HBV Serology Panel (ELISA)	Plasma/Serum	Hepatitis B infection	30,000	2
HTS102	HBsAb (Anti-HBs ELISA)	Plasma/Serum	Hepatitis B infection	6,000	2
HTS103	HBcAb IgM only (Anti-HBc ELISA)	Plasma/Serum	Hepatitis B infection	6,000	2
HTS104	HBcAb IgM + IgG (Anti-HBc total) ELISA	Plasma/Serum	Hepatitis B infection	6,000	2
HTS105	HBeAg (ELISA)	Plasma/Serum	Hepatitis B infection	6,000	2
HTS106	HBeAb (Anti-HBe) (ELISA)	Plasma/Serum	Hepatitis B infection	6,000	2
HTS107	HDV Ag (ELISA)	Plasma/Serum	Hepatitis D infection	6,000	2
HTS108	Anti-HCV (HCV antibody) ELISA	Serum/Plasma	Hepatitis C infection	6,000	2
HTS109	Anti-HDV IgG Antibody ELISA	Serum/Plasma	Hepatitis D infection	6,000	2
HTS110	HAV IgM (Hepatitis A virus IgM)	Serum/Plasma	Hepatitis A infection	6,000	2
HTS111	HAV IgG (Hepatitis A virus IgG)	Serum/Plasma	Hepatitis A infection	6,000	2
HTS112	HbcAg (Hepatitis B core antigen) ELISA	Blood/ Liver biopsy	HBV infection	12,000	2
HTS113	HEV antibody (Hepatitis E virus) IgM	Serum/ Plasma	Hepatitis E virus infection (zoonotic)	6000	2

### Section C: Histology and Immunohistochemistry

IHC114	Bcl-2 Oncoprotein	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC115	Bcl-6 Oncoprotein	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC116	CD1	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
IHC117A	CD3 or CD3 Count	FFPE tissue/Blood in EDTA	Leukaemia & lymphoma	10,000	4
IHC117B	CD2	Blood in EDTA	Leukaemia & lymphoma	10,000	4
IHC118	CD4/ CD4 count	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC119	CD5	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC120	CD7	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC121	CD8 or CD8 Count	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC122	CD10 (CALLA)	FFPE tissue/Blood in EDTA	Leukaemia, lymphoma & lungs	10,000	4
IHC123	CD11c	FFPE tissue/Blood in EDTA	Leukaemia	10,000	4
IHC124	CD14	Blood in EDTA	Leukaemia & lymphoma	10000	4
IHC124	CD15	FFPE tissue/Blood in EDTA	Leukaemia & lymphoma	10,000	4
IHC125	CD19	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC126	CD20	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC127	FMC7	FFPE tissue/Blood in EDTA	Leukaemia & lymphoma	10,000	4
IHC128	CD22	FFPE tissue/Blood in EDTA	Leukaemia & lymphoma	10,000	4
IHC129	CD23	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC130	CD25 (Interleukin-2 Receptor)	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC131	CD30	FFPE tissue/Blood in EDTA	Lymphoma	10,000	4
IHC132	CD33	FFPE tissue/Blood in EDTA	Leukaemia	10,000	4

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
IHC133	CD34 (Endothelial Cell Marker)	FFPE tissue/Blood in EDTA	Leukaemia/GIT	10,000	4
IHC134	CD38	FFPE tissue/Blood in EDTA	Multiple myeloma	10,000	4
IHC135	CD45 (LCA = Leucocyte common antigen)	FFPE tissue/Blood in EDTA	Leukaemia/Lymphoma	10,000	4
IHC135B	TdT marker	Blood in Edta	Leukaemia/Lymphoma	10,000	4
IHC136	CD56	FFPE tissue/Blood in EDTA	Leukaemia/Lymphoma	10,000	4
IHC137	CD57 (HNK-1)	FFPE tissue/Blood in EDTA	Plasmacytoma	10,000	4
IHC138	CD68	FFPE tissue/Blood in EDTA	Leukaemia	10,000	4
IHC139	CD79a	FFPE tissue/Blood in EDTA	Leukaemia & lymphoma	10,000	4
IHC140	CD99 (MIC2 or FMC29)	FFPE tissue	Ewing's Sarcoma	10,000	4
IHC141	CD138 (Syndecan1)	FFPE tissue	Plasmacytoma	10,000	4
IHC142	CD117 (C-kit Oncoprotein)	Blood/ FFPE tissue	Leukaemia & GIT	10,000	4
IHC143	CDX2	Blood/FFPE tissue	GIT	10,000	4
IHC144	C-erB2 Oncoprotein (HER2)	Blood/ FFPE tissue	Breast	10,000	4
IHC145	Cyclin D1	Blood/FFPE tissue	Lymphoma	10,000	4
IHC146	Cytokeratin 5 (CK5)	FFPE Block	Breast/Prostrate/Lung	10,000	4
IHC147	Cytokeratin 7 (CK7)	FFPE tissue	Breast/GIT/Prostate	10,000	4
IHC148	Cytokeratin 14 (CK14)	FFPE tissue	Renal	10,000	4
IHC149	Cytokeratin 20 (CK20)	FFPE tissue	GIT	10,000	4
IHC150	Epidermal Growth Factor Receptor (EGFR)	FFPE tissue	Breast and Lung	10,000	4
IHC151	Epithelial Related Antigen	FFPE tissue	Prostate/Lung/Renal	10,000	4
IHC152	Epithelial Specific Antigen	FFPE tissue	Renal	10,000	4
IHC153	Estrogen Receptor	FFPE tissue	Breast	10,000	4
IHC154	Helicobacter pylori antigen in tissue	FFPE tissue	GITC	10,000	4
IHC155	CLL Immunoprofile	Whole blood in EDTA	For CLL	40,000	3

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
IHC156	Ki67 Antigen	FFPE tissue	Br/leuk/lym/mel/GIT/Pro/Lung	10,000	4
IHC157	Hairy Cell Leukaemia Immunoprofile	Whole Blood in EDTA	Hairy Cell Leukaemia	40,000	3
IHC158	Mela A	FFPE tissue	Lymphoma	10,000	4
IHC159	Melanoma Marker (HMB45)	FFPE tissue	Melanoma	10,000	4
IHC160	Mismatch Repair Protein (MLH1)	FFPE tissue	Leukaemia/GIT	10,000	4
IHC161	Mismatch Repair Protein (MSH2)	FFPE tissue	GIT	10,000	4
IHC162	Mismatch Repair Protein (MSH6)	FFPE tissue	GIT	10,000	4
IHC163	Napsin	FFPE tissue	Lung	10,000	4
IHC164	OCT 02	FFPE tissue	Lymphoma	10,000	4
IHC165	p53 protein (D0-7 or TP53)	FFPE tissue	Breast	10,000	4
IHC166	p63 protein	FFPE tissue	Breast	10,000	4
IHC167	Pax-5	FFPE tissue	Lymphoma	10,000	4
IHC168	Progesterone Receptor (PgR)	FFPE tissue	Breast	10,000	4
IHC169	Prostate Specific Antigen (PSA)	FFPE tissue	Prostate	10,000	4
IHC170	Renal Cell Carcinoma RCC1 marker	FFPE tissue	Renal	10,000	4
IHC171	Vimentin	FFPE tissue	Renal	10,000	4
IHC172	Wilms' Tumour	FFPE tissue	Renal	10,000	4
IHC173	Zap-70	FFPE tissue	Leukaemia/lymphoma	10,000	4
IHC174	ER, PR and HER-2	FFPE tissue	Breast cancer	15,000	4
IHC175	Myogenin	FFPE block	Rhabdomyosarcoma /skeletal muscle	10,000	4
IHC176	Myo-D1	FFPE block	Rhabdomyosarcoma /skeletal muscle	10,000	4
IHC177	S100	FFPE block	Schwannomas, melanomas, astroglomas	10,000	4
IHC178	Desmin	FFPE block	Leiomyoma and rhabdomyosarcoma/Smooth muscle	10,000	4
IHC179	Glycophorin A	5 ml PB in EDTA	Erythroleukaemia	10,000	4

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
IHC180	Prostate Triple Stain (p63+CK HMW+p504S)	FFPE block	PIN/Prostate cancer	10,000	4
IHC181	Pan-Melanoma (S100 + Melan A + Tyrosinase)	FFPE block	Melanoma	10,000	4
IHC182	Neuron Specific Enolase (NSE)	FFPE Block	Ganglioneuromas, neuroblastomas, Schwannomas and malignant melanomas	10,000	4
IHC183	Histology only	Tissue fixed in 10% BFS (buffered formalsaline)	Histology	15,000	8
IHC183B	Histology + Immunohistochemistry	Breast tissues only	Histology and IHC	24,500	8
IHC183C	Histology + Immunohistochemistry (3 markers only)	Any other tissue	Histology and IHC any tissue	27,000	10

#### Section D: Cytochemistry

CY184	PAS staining	Blood and tissue	Detect glycogen, mucin and fungi	10,000	4
CY185	Sudan black B Black Staining	5 ml of blood in EDTA	Neutrophil granules	10,000	4
CY186	Nonspecific esterase (NSE)- Alpha naphthyl acetate esterase	5 ml of blood in EDTA	Detect monocytes	10,000	4
CY187	Tartrate-resistant acid phosphatase (TRAP)	5 ml of blood in EDTA	Hairy Cell leukaemia	10,000	4
CY188	Myeloperoxidase (MPO)	5 ml of blood in EDTA	Detect myeloid and monocytic cells	10,000	4

#### Section E: Coagulation Testing

CO189	Protein C quantitation	Citrated Plasma	Protein C deficiency	10,000	3
CO190	Protein S quantitation	Citrated Plasma	Protein S deficiency	10,000	3
CO191	Free Protein S quantitation	Citrated Plasma	Protein S deficiency	10,000	3
CO192	Prothrombin time (PT) & INR	5ml of blood in TSC	Coagulation screening & OAT	3,500	1 hr

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CO192B	Coagulation Screen (PT/INR, APTT, Fib)	Citrated Plasma	Front line coagulation screening	10,000	1
CO193	APTT (Activated Partial Thromboplastin Time)	5ml of blood in TSC	Coagulation screening	3,500	1
CO194	PCA ratio (APC resistance)	5ml of blood in TSC	APC resistance	8000	1
CO195	Fibrinogen test (Clauss method)	5ml of blood in TSC	Clotting/bleeding disorders	4000	1
CO196	Thrombin time (TT)	5ml of blood in TSC	Bleeding disorders/fibrinolytic therapy	3,500	1
CO197	Factor II assay	5ml of blood in TSC	Clotting disorders	10,000	3
CO198	Factor V assay	5ml of blood in TSC	Clotting disorders	10,000	3
CO199	Factor VII assay	5ml of blood in TSC	Clotting disorders	12,000	3
CO200	Factor VIII assay (FAC8)	5ml of blood in TSC	Haemophilia A	12,000	3
CO201	Factor IX assay (FAC9)	5ml of blood in TSC	Haemophilia B	10,000	3
CO202	Factor XII	5ml of blood in TSC	Clotting disorders	10,000	3
CO203	Factor VIII Inhibitor Assay	5ml of blood in TSC	Haemophilia treatment	30,000	3
CO204	Antithrombin III Assay	5ml of blood in TSC	Clotting disorders	10,000	3
CO205	VWF antigen (VWF: Ag)	5ml of blood in TSC	Von Willebrand disease VWD	15,000	3
CO206	VWF ristocetin cofactor (VWF: RCo)	5ml of blood in TSC	von Willebrand disease VWD	15,000	3
CO207	VWF collagen binding (VWF: CB)	5ml of blood in TSC	von Willebrand disease VWD	15,000	3
CO208	<u>Von Willebrand Disease Screen</u> F8 assay, vWF antigen and Ristocetin cofactor	5ml of blood in TSC	von Willebrand disease VWD	40,000	3
CO209	VWF propeptide (VWFpp)	5ml of blood in TSC	Von Willebrand disease VWD	15,000	3
CO210	VWF multimer analysis	5ml of blood in TSC	Von Willebrand disease VWD	15,000	3

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CO211	<b>Thrombophilia Screen (a panel of 7 tests: Prot C, Antithrombin, Free Prot S, APC resistance, Factor V Leiden mutation, G20210A mutation &amp; Lupus anticoagulant)</b>	2 x 5ml of blood in TSC and 1 tube of EDTA sample	Thrombosis	70,000	7
C0211B	Lupus Anticoagulant LA (DRVVT method)	5ml of blood in TSC	Lupus anticoagulants	10,000	2
CO212	Platelet aggregation factor-thromboxane A2 (TXA2)	5ml of blood in TSC	Platelet disorder	15,000	3
CO213	ADAMTS13 activity level	5ml of blood in TSC	ADAMTS13 deficiency	15,000	3
CO214	Factor X assay	5ml of blood in TSC	Clotting disorders	12,000	3
CO214B	Anti Xa assay (Anti factor Xa)	5ml of blood in TSC	LMWH monitoring	15000	2
CO215	D-dimer	5 ml PB in TSC tube	DVT/PE/Stroke	10,000	2 hrs
C0215B	Fibrin/Fibrinogen Degradation Product (FDP)	5 ml PB in TSC tube	DIC	10,000	2 hrs

#### **Section F: Trace Elements, Vitamins & Micronutrients (TEVM)**

TE216	Cadmium (Cd)	Aqueous sample	Heavy metal analysis	30,000	3
TE217	Nickel (Ni)	Aqueous sample	Heavy metal analysis	30,000	3
TE218	Tin (Tn)	Aqueous sample	Tin poisoning	30,000	10
TE219	Arsenic (As)	Aqueous sample	Arsenic poisoning	30,000	3
TE220	Lead (Pb)	Serum and water	Lead poisoning	30,000	2
TE221	Serum Copper	5 ml of blood in EDTA	Osteoarthritis and osteoporosis etc	10,000	2
TE222	Serum Zinc	Serum	Zinc metabolism	10,000	2
TE223	Methylmalonic Acid (MMA)	Serum/plasma	Anaemia	10,000	2
TE224	Serum Vitamin B12	5ml of PB in plain tube	Anaemia	12,000	2
TE225	Vitamin D (25 dihydroxy)	Plasma	Micronutrient	25,000	2
TE226	Manganese	Serum	Monitoring exposure	10,000	2

#### **Section G: Clinical Chemistry Tests**

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC227	Fructosamine (glycated albumin)	5 ml of blood in EDTA	Short term Glycaemic index (2-3 weeks)	10,000	2
CC228 CC228A CC228B CC228C CC228D CC228E CC228F CC228G	SEUCR (EUCr)/Kidney function Sodium Potassium Chloride Bicarbonate Creatinine Urea BLOOD pH	Serum	Homeostatic dysfunction	8,000	1
CC228B	Comprehensive Metabolic Panel (CMP)- Glucose, SEUCR, LFT, LP	Serum	Metabolic status	30,000	2
CC229	Liver function test (LFT- 7 with GGT)	Serum	Liver profile	8,000	1
CC230	Lipid profile	Serum	Atherosclerosis and lipid related disorders	8,000	1
CC230a	Serum Cholesterol only	Serum	Lipid profile	1500	2 hr
CC231	Pancreatic function test-Amylase, C-peptide, insulin & leptin	Serum	Pancreatic disorders	30,000	2
CC232	Insulin	Serum	Diabetic and pancreatic function	15,000	1
CC233	C-peptide	Serum/Plasma	Pancreatic disorders	12,000	2
CC234	Amylase	Serum or urine	Pancreatic disorders	10,000	2
CC235	C-reactive protein (CRP)	Serum	Acute Inflammation	10,000	1
CC236	Lactate dehydrogenase LDH	Serum	Tissue damage/anaemia	10,000	2
CC237	C1 esterase inhibitor (C1 inhibitor)	Serum	Complement system	10,000	2
CC238	Leptin	Serum/Plasma	Glucose metabolism	10,000	2
CC239	Acid phosphatase-total and prostatic in serum	Serum	Prostate cancer	10,000	2
CC240	Uric Acid	Serum	Gout	7,000	1
CC241	Iron/TIBC/UIBC/Iron saturation (Iron Studies)	Serum	Iron metabolism	8,000	2

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC242	Serum MagnesiumCC	Serum	Metabolism	8,000	2
CC243	Total Protein, albumin and globulin	Serum	Kidney/Liver diseases	8,000	2
CC243B	Albumin Creatinine	Serum			
CC243C	Albumin Random				
CC243D	Bone Profile (6 tests: Ca, TP, Alb, Glob, Phos, ALP)	Serum	Bone status	25,000	1
CC244	Serum calcium	Serum	Metabolism	5,000	2
CC245	Corrected Calcium	Serum	Metabolism	5,000	2
CC246	Oral glucose tolerance test (OGTT)	Send patient to the lab	Glucose metabolism	12,000	1
CC247	Glycosylated Haemoglobin (HbA1C)	5ml of PB sodium or lithium heparin	Diabetes monitoring	10000	1
CC248	Human Erythropoietin (EPO)	Plasma/Serum	Erythrocytosis/Polycythaemia	20,000	2
CC249	Soluble P-Selectin (SELP)	Plasma/Serum	Erythrocytosis/Anaemia	10,000	2
CC250	Transferrin	Serum	Iron metabolism	15,000	2
CC251	Soluble transferrin receptor	Serum	Iron metabolism	15,000	2
CC252	Lipase	Serum	Pancreatic disease	8,000	1
CC253	Complement factors C3 and C4	Serum	Autoimmune/inflammation/kidney disease	16,000	2
CC254	Digoxin	Serum	Cardiac profile	10000	3
CC255	Myoglobin	Serum	Cardiac profile	6000	3
CC256	Troponin I (TnI) / Cardiac specific troponin I (cTnI)	Serum	Cardiac profile	10000	1
CC257	Troponin T/Cardiac specific Troponin T (cTnT)	Serum	Cardiac profile	10000	1
CC258	Serum Ferritin	Serum	Iron metabolism	7,000	2
CC259	Creatine Kinase 2 (CK-MB)	Serum	Cardiac profile	7000	3
CC260	Alpha2 macroglobulin	5 ml of PB in EDTA	Liver cirrhosis (e.g Hepascore)	10000	3
CC261	Serum Protein electrophoresis (SPE)	Serum	Gammopathy	15,000	5
CC262	Immunofixation (IF)	Serum	Gammopathy	15,000	8

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC263	<b>Paraproteins</b>	Serum	Gammopathy	<b>15,000</b>	7
CC264	<b>Urine Protein electrophoresis (UPE)</b>	20ml of early morning urine	Gammopathy	<b>15,000</b>	7
CC265	<b>Microalbumin (Microalbumin/Creatinine ratio)</b>	Fresh early morning urine	Diabetic nephropathy	<b>6000</b>	2
CC266	<b>Total human IgG, IgM and IgA</b>	Serum/Plasma	MM	<b>16000</b>	2
CC267	<b>Total human IgG only</b>	Serum /Plasma	MM	<b>6000</b>	2
CC268	<b>Total human IgM only</b>	Serum	MM	<b>6000</b>	2
CC269	<b>Total human IgA only</b>	Serum	MM	<b>6000</b>	2
CC270	<b>Total human IgE only</b>	Serum	Allergy	<b>10000</b>	2
CC271	<b>Total human IgD only</b>	Serum	MM	<b>6000</b>	2
CC272	<b>Ceruloplasmin</b>	Serum/plasma	Wilson's disease/Menke's Syndrome	<b>10,000</b>	3
CC273	<b>Aldolase</b>	Serum/plasma	Skeletal muscle disease	<b>10,000</b>	2
CC274	<b>Pregnancy test in urine</b>	10ml of Early morning urine	Pregnancy	<b>2,000</b>	1 hr
CC275	<b>Vanillylmandelic Acid VMA</b>	24-hour urine	Neuroblastoma/Pheochromocytoma	<b>18,000</b>	2
CC276	<b>Homovanillic Acid HVA</b>	24- hour urine	Neuroblastoma	<b>18000</b>	2
CC276B	<b>5-Hydroxyindoleacetic acid</b>	24- hour urine	Carcinoid tumours	<b>30,000</b>	2
CC277	<b>Metanephhrines</b>	Urine or serum	Pheochromocytomas	<b>20000</b>	5
CC278	<b>Ammonia in blood</b>	5 ml of PB in EDTA	Reye's syndrome etc	<b>10,000</b>	1
CC279	<b>Bence Jones protein</b>	Fresh mid-stream Urine	Multiple myeloma	<b>20000</b>	2
CC280	<b>Fasting Blood Sugar/ Glucose or Random blood sugar/Glucose</b>	5ml of PB in fluoride oxalate tube	Diabetes	<b>2000</b>	2 hrs
CC281	<b>Pyruvate Kinase in RBC</b>	Blood in EDTA	Pyruvate kinase deficiency	<b>20,000</b>	2

#### **Section H: Hormonal Assays and Other chemistries**

CC282	T4 total	Serum	Thyroid function	<b>5000</b>	1
CC283	T3 total	Serum	Thyroid function	<b>5000</b>	1
CC284	TSH	Serum	Thyroid function	<b>5000</b>	1
CC284B	<b>Thyroid function test-3 parameters</b>	Serum	Thyroid function	<b>13,000</b>	1

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC285C	<b>Thyroid function test-5 parameters</b>	Serum	Thyroid function	<b>20,000</b>	1
CC285	<b>T4 free</b>	Serum	Thyroid function	<b>5000</b>	1
CC286	<b>T3 free</b>	Serum	Thyroid function	<b>5000</b>	1
CC287	<b>Neonatal TSH</b>	Serum	Thyroid function	<b>7000</b>	2
CC288	<b>Neonatal T4</b>	Serum	Thyroid function	<b>7000</b>	2
CC289	<b>Neonatal T3</b>	Serum	Thyroid function	<b>7000</b>	1
CC290	<b>T uptake</b>	Serum	Thyroid function	<b>5000</b>	2
CC291	<b>SHBG (Steroid hormone binding globulin)</b>	Serum	Hormonal profile	<b>6000</b>	2
CC292	<b>Testosterone</b>	Serum	Fertility	<b>5000</b>	1
CC293	<b>Progesterone</b>	Serum (check LMP)	Fertility	<b>5000</b>	1
CC294	<b>Prolactin</b>	Serum	Fertility	<b>5000</b>	1
CC295	<b>Dihydrotestosterone (DHT)</b>	Serum	Fertility	<b>5000</b>	1
CC296	<b>LH</b>	Serum	Fertility	<b>5000</b>	1
CC297	<b>FSH</b>	Serum	Fertility	<b>5000</b>	1
CC298	<b>Oestradiol</b>	Serum	Fertility	<b>5000</b>	1
<b>CC299</b>	<b>Anti-Muellerian hormone (AMH)</b>	Plasma /Serum	Ovarian Reserve	<b>30,000</b>	2
CC300	<b>Inhibin B</b>	Plasma /Serum	Fertility	<b>30,000</b>	2
CC301	<b>Inhibin A</b>	Plasma/Serum	Down Syndrome screen	<b>30,000</b>	2
CC301	<b>Aldosterone</b>	Serum	Aldosteronism	<b>30,000</b>	3
CC302	<b>Renin</b>	Serum	Aldosteronism	<b>30,000</b>	3
CC303	<b>Oxytocin</b>	Serum	Reproductive/ Neurotransmision	<b>12,000</b>	3
CC304	<b>Anti-diuretic hormone ADH</b>	Serum	Anti-diuresis	<b>12,000</b>	3
CC305	<b>Angiotensin II</b>	Serum	Hypertension management	<b>15,000</b>	3
<b>CC305B</b>	<b>Angiotensin Converting Enzyme ACE (serum, ACE/SACE)</b>	Serum	Sarcoidosis, Granulomas	<b>20,000</b>	1
<b>CC306</b>	<b>Total Beta HCG (<math>\beta</math>HCG) quantitative</b>	Serum	Choriocarcinoma/ Pregnancy	<b>10,000</b>	1
CC307	<b>Androstenedione</b>	Serum	Polycystic Ovarian syndrome/ adrenal hyperplasia	<b>10,000</b>	3

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC308	<b>Free Testosterone</b>	Serum	Hyperandrogenism/ Hirsutism	<b>10,000</b>	1
CC308B	<b>Androgens-3 parameters</b>	Serum	Fertility	<b>15,000</b>	1
CC309	<b>Free Estriol/ Unconjugated Estriol UE3</b>	Serum	Monitoring fetal status	<b>10,000</b>	2
CC310	<b>17 alpha hydroxy progesterone</b>	Serum	Adrenal hyperplasia	<b>15,000</b>	1
CC311	<b>PAPP-A (Pregnancy Associated Plasma Protein A)</b>	Serum	Down Syndrome/fetal aneuploidy	<b>6,000</b>	2
CC312	<b>Parathyroid hormone (Intact PTH)</b>	Blood in EDTA tube (plasma)(not serum)	Hyperparathyroidism	<b>20,000</b>	1
CC313	<b>Calcitonin</b>	Serum	Paget's disease/Osteoporosis	<b>20,000</b>	3
CC314	<b>Procalcitonin</b>	Serum	Infection	<b>15,000</b>	3
CC315	<b>Lambda and Kappa light Chains (Serum free light chains)</b>	Serum	Monoclonal gammopathies	<b>20,000</b>	2
CC316	<b>Apolipoprotein A1 and Apolipoprotein B</b>	Serum	apolipoproteinopathy and Tangier disease	<b>20,000</b>	3
CC317	<b>Creatine phosphokinase CPK (Creatine kinase CK)/ CK-NAC</b>	Serum	Acute myocardial infarction and muscular diseases	<b>10,000</b>	3
CC318	<b>Cholinesterase</b>	Serum	Liver diseases and pesticide poisoning	<b>10,000</b>	3
CC319	<b>G6PD deficiency screening</b>	5 ml of blood in EDTA	G6PD deficiency/ 21aemolytic anaemia	<b>10,000</b>	1
CC320	<b>Glutamate dehydrogenase</b>	Serum	Necrotic liver disease	<b>10,000</b>	3
CC321	<b>Creatinine Clearance</b>	Serum and 24-hr urine	Kidney disease	<b>10,000</b>	2
CC322	<b>Glucosamine (N-Acetyl glucosamine, NAG)</b>	Serum or Urine	Morquio syndrome/ mucopolysaccharidosis IV	<b>15,000</b>	4
CC323	<b>Galactosamine (N-acetyl galactosamine)</b>	Serum or urine	Morquio syndrome/ mucopolysaccharidosis IV	<b>15,000</b>	4
CC324	<b>6 Sulfatase (N-acetylgalactosamine 6 sulfate sulfatase)</b>	Serum	Morquio syndrome/ mucopolysaccharidosis IV	<b>15,000</b>	4
CC325	<b>Porphyria Screen (total screen)</b>	Blood, Stool or urine	Porphyrias- neurologic/cutaneous	<b>30,000</b>	8
CC326A	<b>24-hour urine Creatinine</b>	24- hour urine	Renal impairment	<b>15,000</b>	2

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC326B CC326C	24-hour uRINE Protein 24-hour Calcium				
CC327	Cortisol [@ 8am or 4pm] Each sample is N10, 000	Urine or serum or saliva	Cushing syndrome/hypercortisolism	10,000	2
328	ACTH test (Adrenocorticotropic hormone)	5ml of PB in EDTA	Cushing syndrome/Addison's /tumours	15,000	3
CC329	Tissue necrosis factor TNF	Serum or plasma	Cytokine study	10,000	4
CC330	Calculus analysis (renal stone, urethral stone etc)	Urine sample	Urolithiasis	15,000	2
CC331	Pro-BNP (Brain natriuretic peptide)	Serum	Heart failure	20,000	3
CC332	Interleukin 2 (IL2)	Serum or plasma	Cytokine study	10,000	4
CC333	Interleukin 6 (IL2)	Serum or plasma	Cytokine study	10,000	4
CC334	Interfereon gamma alpha		Cytokine study	10,000	4
CC335	Serum Folic acid (Folate)	Plasma	Anaemia	20,000	1
CC336	Red cell Folate	5 ml PB in EDTA	Anaemia	20,000	3
CC337	Pituitary Screen [LH, FSH, GH, Prolactin, Cortisol at random]	Serum	Pituitary function	25,000	3
CC338A	Menopausal Screen (LH, FSH, Oestrogen)	Serum	Menopause	15,000	3
CC338B	Penta Screen (Maternal Serum screen using 5 markers)	Serum	Neural tube defect and Trisomy	100,000	3
CC339	Free Androgen index FAI	Serum	Hyperandrogenaemia/andr ogenic alopecia/POS	15,000	3
CC340	Oligoclonal bands and CSF analysis-complete	Cerebrospinal fluid CSF	Multiple sclerosis	60,000	5
CC341A	Homocysteine (Plasma level or urine)	5 ml of blood in EDTA or urine sample	Cardiac risk assessment	20,000	3
CC342B	Alpha-1 Antitrypsin (A1AT)	Serum	Emphysema and persistent jaundice	15,000	2
CC342	Inorganic Phosphate/Phosphorus	Serum	Ketoacidosis/kidney function	5,000	2
CC343	Adrenaline (epinephrine)	Plasma	Drug monitoring	20,000	3

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC344	Noradrenaline (norepinephrine)	Plasma	Drug monitoring	20,000	3
CC345	Dopamine	Plasma	Drug monitoring	20,000	3
CC346	Catecholamines (Adr/Noradr)	Plasma	Drug monitoring	30,000	3
CC347	Serotonin (5 HT)	Plasma	Neurological disease	20,000	2
CC347B	Gastrin (Serum gastrin)	Serum	Zollinger-Ellison syndrome, Gastrinomas	30,000	2
CC347C	D3-Hydroxybutyrate	Serum	Ketoacidosis	5000	1
CC347D	Bile Acids test	Serum (Fasting sample)	Obstetric cholestasis	5000	1
CC347E	Cystatin-C	Serum	Kidney function	5000	1
CC347F	Calculi/ Urinary track stones	Urine	Calculi	20000	3
CC347G	Alpha-1 Microglobulin test	Urine	Renal tubular injury	10,000	1
CC347H	Haptoglobin	Serum	Intravascular haemolytic anemia	5000	1

#### **Section I: Drug Testing (Therapeutic Monitoring & Drug of Abuse)**

TDM348	Morphine/Opiates/Cocaine/Cannabis/Barbiturate/ meth/ benzo etc (12 drugs panel) in urine test/ Urine toxicology	Fresh urine sample	Drug of abuse testing	10,000	1
TDM349	Amphetamine	Fresh urine sample	Drug of abuse	20,000	6
TDM350	Benzodiazepine	Urine	Drug of abuse	20,000	
TDM351	Paracetamol	Serum/plasma	Overdose	10,000	8
TDM352	Lithium in blood	5 ml of PB in EDTA	Drug monitoring	8,000	1
TDM353	Salicylate	Serum/Plasma	Overdose	20,000	
TDM354	Ethanol	Serum/Plasma	Overdose	10,000	
TDM355	Cyclosporine	Plasma	Organ transplant	15,000	2
TDM356	Tacrolimus (FK506 test)	Plasma	Organ transplant	15,000	2
TDM357	Tetracycline	Plasma	Drug detection	30,000	5
TDM358	Chloramphenicol	Plasma/tissue homogenate	Drug detection	30,000	5

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
TDM359	Gentamycin	Plasma/tissue homogenate	Drug detection	15,000	5
TDM360	Barbiturates	Plasma	Drug detection	15,000	5
TDM361	Phenytoin	Plasma	Drug monitoring	20,000	5
TDM362	Sodium Valproate	Plasma	Drug monitoring	20,000	5
TDM363	Theophylline	Plasma	Drug monitoring	30,000	5
364	Carbamazepine	Plasma	Drug monitoring	30,000	5
TDM365	Phenobarbitone	Plasma	Drug monitoring	30,000	5

#### Section J: Tumour Markers (Cancer Markers)

TM366	Alpha fetoprotein (AFP)	Serum	Testicular cancer & PLC	10,000	1
TM366B	Des-gamma-carboxy prothrombin DCP	Serum	Liver Cancer	15000	1
TM366	β2-Microglobulin	Serum	Inflammatory diseases	10,000	1
TM367	CA-125	Serum	Epithelial ovarian cancer	10,000	1
TM368	Growth Hormone (Human)	Serum	Growth/tumour	10,000	2
TM369	CA-153	Serum	Breast Cancer	10,000	1
TM370	CA-199	Serum	GIT Cancers	10,000	2
TM371	CEA (Carcinoembryonic antigen)	Serum	Tumour screening	10,000	1
TM372	PSA Free	Serum	Prostate Cancer screening	4000	2
TM373	PSA Total	Serum	Prostate Cancer screening	4000	2
TM374	NSE (Neuron specific enolase) in serum	Serum	Small cell lung cancer/neuroblastoma	10,000	2
TM375A	Free Beta HCG quantitative	Serum	Trisomy 21 in pregnancy	10,000	3
TM375B	CA27-29	Serum	Breast cancer recurrence	10,000	3

#### Section K: Autoimmune Diagnostics (26 different tests)

AD376A	Anti-phospholipid antibodies-IgG	Serum	Autoimmune diseases	15,000	2
AD376B	Anti-phospholipid antibodies IgM			15,000	2
AD377	Anti-nuclear antibodies (ANA or ANF) screen	Serum	Autoimmune diseases	15,000	2

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
AD378	Extractile nuclear antigen (ENA) Combined Screen	Serum	Autoimmune diseases	15,000	2
AD379A AD379B	Beta 2 glycoprotein 1-IgG Beta 2 glycoprotein 1 IgM	Serum	SLE, APS, thrombocytopenia	15,000 15,000	2 2
AD380	Anti-double stranded DNA (ds-DNA) antibodies	Serum	SLE	15,000	2
AD381	Rheumatoid factor RF ELISA	Serum	Autoimmune disease	15,000	2
AD382	Anti-citrullinated Peptide antibody (Anti-CCP) test	Serum	Rheumatoid arthritis	15,000	2
AD383	Anti-Mitochondrial (M2) antibodies	Serum	Primary biliary cirrhosis	15,000	2
AD384A	ANTI-Thyroglobulin antibody test (TGAB OR ATG)	Serum	Thyroid autoimmune disease	15,000	2
AD384B	Anti TSH Receptor antibody (same as <i>Thyrotropin Receptor antibody, TRAb</i> )	Serum	Thyroid autoimmune/Grave's disease	15,000	2
AD385A	Thyroid microsomal antibodies	Serum	Thyroid autoimmune	15,000	2
AD385B	Anti TPO (thyroid peroxidase) antibody test or TPOAb)	Serum	Hashimoto's and Graves' diseases and primary myxoedema	15,000	2
AD385C	Anti-Thyroid antibodies (ATG+TPO)		Thyroid autoimmune	30,000	2
AD386	PR3 (c-ANCA)	Serum	Autoimmune	15,000	2
AD387	ANCA screen IgG ELISA (Anti-cytoplasmic autoantibodies)	Serum	Autoimmune	15,000	2
AD388	MPO, Myeloperoxidase (p-ANCA) ELISA	Serum	Autoimmune	15,000	2
AD389A AD389B	Anti Cardiolipins IgG Anti Cardiolipins IgM	Serum	Autoimmune/APS	15,000 15,000	2
AD390	Tissue Transglutaminase Antibody IgA test (TTT A)	Serum	Coeliac Disease	20,000	2
AD391	Sm/RNP antibodies	Serum	Autoimmune	15,000	2
AD392	Scl 70 (Sclerodema antibodies)	Serum	Autoimmune	15,000	2

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
AD393	SS-A (Ro), SS-B (La) and Jo-1 antibodies	Serum	Autoimmune	15,000	2
AD394	Anti-Gliadin Antibody (AGA)	Serum	Autoimmune	15,000	2
AD395	Anti-KLM (Kidney Liver microsomal) antibody test	Serum	Autoimmune	20,000	2
AD396	Anti-acetylcholine receptor antibodies (AchR test)	Serum	Myasthenia gravis	15,000	2
AD397	Anti-muscle specific kinase antibodies (anti-MuSK test)	Serum	Myasthenia gravis	15,000	2
AD397B	Anti- Smooth Muscle Antibody ASMA	Serum	Autoimmune hepatitis	15,000	2
AD398A	Anti-Mycoplasmic antibodies (AMA)	Serum or blood in plain tube	Systemic infection	15,000	2
AD398B	Endomysial Antibody IgA (EMA)	Serum	Dermatitis Herpetiformis and Celiac Disease	20,000	2

#### Section L: Allergy Diagnostics

AD399	<b>Inhalation Allergy 1</b> Allergy to grasses, trees, weeds, mites, animals (cat, dog and horse) and moulds	Serum (1.0 ml)	Allergy	30,000	4
AD400	<b>Inhalation Allergy 2</b> Allergy to grasses, trees, weeds, mites, animals (cat, dog, horse, guinea pigs, rabbit, hamster and birds) and moulds.	Serum (1.0 ml)	Allergy	30,000	4
AD401	<b>Paediatric Inhalation</b>	Serum (0.5 ml)	Allergy	30,000	4
AD402	<b>Food Allergy 1</b> Allergy to egg, milk, yeast, grains, legumes, nuts, fruits, vegetables, fish and shellfish.	Serum (1.0 ml)	Allergy	30,000	4
AD403	<b>Food Allergy 2</b>	Serum (1.0 ml)	Allergy	30,000	4

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
	Enhanced panel including part of food allergy 1 and additions like casein, peach, sesame)				
AD404	<b>Paediatric Food allergy</b> Allergy to grasses, trees, weeds, mites, animals, egg, milk, fish, proteins, grains, legumes, nuts, vegetables and fruits.	Serum (0.5 ml)	Allergy	30,000	4
AD405	<b>Atopy Allergy</b> Includes grasses, trees, weeds, mites, animals, moulds, egg, milk, fish, grains, legumes, nuts, vegetables and fruits	Serum (1.0 ml)	Allergy	30,000	4
AD406	<b>Pollen-associated food allergy</b> Includes atopy allergy and spices and vegetables (onion, anis, lovage, mustard, carrot, potato and celery), more fruits (apple, strawberry, apricot, fig and litschi)	Serum (1.0 ml)	Allergy	30,000	4
AD407	<b>Total Human IgE</b>	Serum 0.5ml	Allergy	10,000	2
AD407B	<b>Human Allergen Specific IgG</b>	Serum 0.5 ml	Allergy	15,000	2

### Section M: Infectious Diseases

ID408	<b>Helictobacter pylori antigen ELISA</b>	Stool sample	Infection by H. pylori	10,000	2
ID409	<b>Anti-DNAse B antibody</b>	Serum	Streptococcal infection	7000	2
ID410	<b>H. pylori antibody ELISA</b>	Blood	Infection by H. pylori	10,000	2
ID411	<b>Cytomegalovirus-CMV-ELISA</b>	5ml of PB in plain tube	CMV infection	10,000	2
ID412	<b>E. Coli O 1567 and E.coli Verotoxin</b>	1gm of stool	O157 in HUS and Haemorrhage	15,000	2
ID413	<b>Chlamydia trachomatis IgG ELISA</b>	Blood	Chlamydia infection	10,000	2
ID414	<b>Urinalysis/Urine Microscopy</b>	Fresh urine	UTI	2,000	1
ID415	<b>Widal test</b>	5ml of PB in plain tube	Salmonella infection	2,500	1

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
ID416	Microbiology culture and sensitivity	Any sample	Bacterial infection	6000	5
ID417	Fungal studies [KOH+Culture +LB+Sensitivity]	Any sample	Fungal infection	20,000	30
ID418	Ziehl Neelsen (ZN) Acid fast bacilli stain AFB	Sputum –three consecutive days	Tuberculosis	5000	4
ID419	Semen analysis only	Semen	Fertility	5,000	2
ID420A	Rubella IgG	Serum	Rubella immunity	10,000	2
ID420B	Rubella IgG	Serum	Rubella infection	10,000	2
ID421	Faecal Calprotectin	Stool	Inflammatory bowel disease IBD	15,000	3
ID421B	Faecal Fat analysis	Stool	GIT disorders	15,000	2
ID422	Faecal Occult blood test	Stool	Colorectal cancer/Ulcer	5,000	2
ID423	Antenatal Screen [FBC, BG, Genotype, HbsAg, HCV, Rubella, VDRL, ICT, DCT, RVS and CMV, urinalysis, Factor V Leiden and PT mutation]	Blood and urine	Antenatal care	60,000	4
ID424	Ebstein Barr virus EBV IgG /IgM	Blood	EBV infection	15,000	2
ID425	VDRL and TPHA serology	5 ml in plain tube	Sexually transmitted diseases	15,000	2
ID426	Treponema Palladium Haemagglutination test (TPHA)	5 ml in plain tube	Sexually transmitted diseases	10,000	2
ID427	Measles IgG	Serum	Measles	10,000	2
ID427B	Measles IgM	Serum	Measles	10000	2
ID428	ASO titre	Blood	Streptococcal infection	6,000	2
ID428B	Weil-Felix test/ Proteus OX19/OX2/OXK	Serum	Rickettsial infections	10,000	1
ID429	Anaerobic/Capnophilic /Microaerophilic cultures	Any sample	Bacterial infection	10,000	5

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
ID430	Herpes simplex 1,2 IgG and IgM antibodies	Serum	Herpes simplex infection	20,000	3
ID431	Blood Culture [anaerobic and aerobic]	Blood into BHI and thioglycollate medium	Septicaemia	20,000	14
ID432A ID432B	Varicella zoster IgM Varicella Zoster IgG	5ml of PB in plain tube	Infection Immunity	10,000 10,000	2 2
ID432C	Vaccination Status: MMR, Varicella IgG and Anti-HBs titre	Serum	Vaccination status	45000	2
ID433A	TB IgM ELISA	5 ml of blood in plain tube	Active Tuberculosis	10,000	6
ID433B	TB IgG ELISA	5 ml of blood in plain tube	Previous Exposure to Tuberculosis	10,000	6
ID434	TB Culture (Mycobacterium culture)	Sputum	TB diagnosis	15000	3
ID435	TB multi drug resistant test 1st or 2 <sup>nd</sup> line testing	Sputum	TB drug resistance	30,000	20
ID436	HIV I and II Ab/Ag 4 <sup>th</sup> Gen ELISA	Serum or plasma	HIV infection	5000	2
ID437	Cryptosporidium infection test	Stool sample	Cryptosporidiosis	10,000	1
ID438	Toxoplasma IgM and IgG	Serum/plasma	Toxoplasma infection	20,000	2
ID438B	Echinococcus Antibody IgG test	Serum	Hydatid Disease	10,000	2
ID438C	Amoebic Precipitin test/ E histolytica IgG ELISA	Serum	Amebiasis	10,000	2
ID438B	Glandular Fever test (Mono spot test)	Blood in EDTA	Glandular fever	8000	1

#### Section N: Haematology tests

HR439	FBC with ESR and malaria tests	5ml of PB in EDTA	Blood disorders	5,000	1
HR440	Platelet count only	5ml of PB in EDTA	Blood disorders	3000	1
HR441	WBC total count only	5ml of PB in EDTA	Blood disorders	3000	1

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
HR442	Hb concentration only	5ml of PB in EDTA	Anaemia	2000	1
HR443	Microfilaria Screening (3 samples) <i>(note this is screening, different from DNA test)</i>	5ml of blood in EDTA: 12 noon, 12 mid-night and 2 am	Lymphatic filariasis	20,000	2
HR443B	Filarial IgG4 test (Microfilaria)	Serum	Confirmation of Wucheria bancrofti filariasis	8,000	2
HR444A HR444B HR444	Blood group Hb genotype (Genotype by HPLC)	5ml in PB in EDTA	Routine check. Hb HPLC	10,000	3
HR445A	Malaria parasite tests: RMT, Film and ELISA	5ml of PB in EDTA	Malaria infection	4000	1
HR445B	MP (RMT & Film) and Widal test only	Blood in EDTA and plain tube	Malaria and Typhoid	4500	1
HR445C	Peripheral Blood Film Only	Blood in EDTA	Morphology	4000	1
HR445D	LE Cells test (Staining)	Blood in EDTA	SLE	8,000	1
HR446	HB variants quantitation (HbF, A1, A2, HbS) – HPLC	5ml of PB in EDTA	Haemoglobinopathy	10,000	1
HR447	Antibody identification (10 cells IAT & Enzyme panel-NBS UK)	5 ml of PB in EDTA	Allo-immunization	15,000	3
HR448	Direct Coombs test	5ml of PB in EDTA	Antibody detection	8,000	1
HR449	Indirect coomb's test (ICT)	5ml of PB in EDTA	Antibody detection	8,000	1
HR450	Reticulocyte count	5ml PB in EDTA	Anaemia	3,000	1
HR451	Antibody Screen (3 panel-NBS UK panel)	5 ml of PB in EDTA	Antibody detection	7000	3
HR452	Osmotic fragility test OFR	5 ml of PB in EDTA	Red cell membrane disorder	8000	3
<b>Section O: Miscellaneous Group</b>					
CG453	PAP smear	Swab/Smear	Cervical cancer	8,000	3
CG454	Karyotyping (G-C banding)	Blood	Chromosomal analysis	50,000	14

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CG455	Buccal smear cytology	Swab	Oral cytology	15,000	3
CG455B	Ascitic Fluid Cytology	Ascitic Fluid	Cytology	15,000	3
CG455C	FLUID CYTOLOGY	ANY FLUID	CYTOLGY	15000	3
RA456	Water Analysis (comprehensive)	Water	Water quality	50,000	6
RR457	Food Handler's Test (stool m/c/s and Widal test)	Blood and Stool	Hygiene and safety	6000	4

#### Section P: Antioxidants, Food and Drinks

AFD458	Superoxide Dismutase	Any fluid	Antioxidant	2000	1
AFD459	Malondiadehyde MDA test	Any fluid	Lipid peroxidation	2500	2
AFD460	Glutathione Peroxidase	Any fluid	Antioxidant	2000	1
AFD461	Glutathione Reductase	Any fluid	Antioxidant	2000	1
AFD462	Catalase test –quantitative	Any fluid	Antioxidant	2000	1
AFD463	Lactate test	Any fluid/serum	Lactic acidosis	2000	1
AFD464	L-Lactic Acid test	Any fluid/Wine	Malolactic fermentation	2000	1
AFD465	L-Malic Acid test	Wine and juice	Fermentation	2000	1
AFD466	Total Antioxidant Status TAS: Enzymatic method	Any fluid	Antioxidant	3000	1
AFD467	DPPH Radical Scavenging test	Any fluid	Antioxidant	2000	1
AFD468	Total Aflatoxin (Veratox)	Nuts, grains, Cereals	G1, G2 and B1, B2 types of Aflatoxin	20,000	1
AFD469	Veratox Aflatoxin M1	Milk, Dairy products	M1 aflatoxin	20,000	1
AFD470	Phytochemistry-qualitative-17 parameters	Any fluid	Phytochemicals	15,000	5
MD471	PTEN Mutation screening	Blood in EDTA	Cancer Screening	20,000	8
MD472	STK11(LKB1) Mutation Screening	Blood in EDTA	Cancer Screening	20,000	8
IHC473	CD27	Blood in EDTA or tissue block	B Cell Lymphoma	10,000	3
IHC474	CD28	Blood in EDTA or tissue block	T Cell Lineage disorder	10,000	3
MD475	E-Cadherin (CDH1) Gene expression	Blood in EDTA or tissue block	Tumour suppressor	20,000	4
IHC476	E-Cadherin (CDH1) protein	Blood in EDTA or tissue block	Tumour suppressor	10,000	3

Test ID	Test Name	Sample Required	Indication	Cost in Naira	TA time (Days)
CC481	Adenosine Deaminase test	Serum	Mycobacterium tuberculosis	20,000	2
CC481B	Adenosine Deaminase test	Ascitic fluid		20,000	2
HR482	ANEMIA PROFILE	WHOLE BLOOD	ANAEMIA	5000	1
AD483	ANTI-SPERM ANTIBODY	Serum	Autoimmune	15000	2
HR483	BLEEDING TIME	NIL	Platelet functioning	3500	1
HR484	BRUCELLA ANTIBODY IGM	SERUM	BRUCELLA INFECTION	10000	3
HR485	BRUCELLA ANTIBODY IGG	SERUM	BRUCELLA INFECTION	10000	3

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