

AMPATH  
John Doe, 123 Main St, Anytown  
NY 12345-6789,  
USA



**AMPATH**  
ACCURATE DIAGNOSTICS, AMERICAN STANDARDS.

MC-2751

**LABORATORY REPORT**

<b>NAME</b> : MR. DUMMY	<b>REFERRED BY</b> : XYZ HOME LAB	<b>VISIT NO</b> : 24239388
<b>AGE</b> : 44Y 0M 0D	<b>LAB MR#</b> : 00758170	<b>COLLECTED ON</b> : 23-06-2024 12:00
<b>GENDER</b> : Male		<b>RECEIVED ON</b> : 23-06-2024 13:18
<b>OP / IP / DG #</b> :		<b>APPROVED ON</b> : 23-06-2024 13:28
		<b>REPORT STATUS</b> : Final Report



Test Name	Result	Biological Ref. Interval	Unit
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Test Name	Result	Biological Ref. Interval	Unit
<b>Amfit Freedom Plus</b>			
<b>HAEMATOLOGY</b>			
<b>Complete Blood Counts (Whole Blood - EDTA)</b>			
<b>(Automated Hematology Analyzer &amp; Microscopy)</b>			
Hemoglobin <i>photometric method</i>	17.0	13.0 - 17.0	g/dL
RBC Count <i>coulter principle</i>	<b>5.6 H</b>	4.5 - 5.5	10 <sup>6</sup> /μL
Hematocrit	<b>53.1 H</b>	36 - 46	%
MCV(Mean Corpuscular Volume) <i>Derived from RBC Histogram</i>	94.4	83 - 101	fL
MCH(Mean Corpuscular Hemoglobin) <i>Calculated</i>	30.3	27 - 32	pg
MCHC(Mean Corpuscular Hemoglobin Concentration) <i>Calculated</i>	32.1	31.5 - 34.5	g/dL
RDW <i>Derived from RBC Histogram</i>	<b>15.2 H</b>	11.6 - 14	%
Total Leukocyte Count <i>coulter principle</i>	5.8	4.0 - 10.0	10 <sup>3</sup> /μl
<b>Differential count % (VCSn Technology &amp; light microscopy)</b>			
Neutrophils	67.0	40-80	%
Lymphocytes	31.0	20-40	%
Monocytes	8.0	2-10	%
Eosinophils	4.0	1-6	%
Basophils	0.0	0-1	%
<b>Differential Counts, Absolute(calculated)</b>			
Absolute Neutrophil Count <i>VCSn/Calculated</i>	3.89	2.0-7.0	10 <sup>3</sup> /μl
Absolute Lymphocyte Count <i>VCSn/Calculated</i>	1.80	1.0-3.0	10 <sup>3</sup> /μl
Absolute Monocyte Count	0.46	0.2 - 1.0	10 <sup>3</sup> /μl
Absolute Eosinophil Count (AEC) <i>VCSn/Calculated</i>	0.23	0.02-0.5	10 <sup>3</sup> /μl
Absolute Basophil Count	0.10	0.02 - 0.1	10 <sup>3</sup> /μl
Platelet Count <i>coulter principle</i>	150	150 - 410	10 <sup>3</sup> /μl
MPV	9.3	7.5 - 11.5	fL

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MC-2751

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<b>NAME</b> : MR. DUMMY	<b>REFERRED BY</b> : .....	<b>VISIT NO</b> : 24239388
<b>AGE</b> : 44Y 0M 0D	<b>CHENNAI HOME LAB</b>	<b>COLLECTED ON</b> : 23-06-2024 12:00
<b>GENDER</b> : Male	<b>LAB MR#</b> : 00758170	<b>RECEIVED ON</b> : 23-06-2024 13:18
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**Amfit Freedom Plus**

**BIOCHEMISTRY**

**Glucose - Fasting** (Fluoride Plasma - F)

Glucose - Fasting <i>Hexokinase</i>	<b>318.0 H</b>	Normal : 74-100 Pre-diabetic : 100-125 Diabetic: >=126	mg/dL
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**HbA1c - Glycated Hemoglobin** (Whole Blood - EDTA)

Glycated Hemoglobin, HbA1c <i>TINIA</i>	<b>11.30 H</b>	Non diabetic range: 4.8-5.6% Prediabetic range: 5.7-6.4% Diabetes range: >=6.5%	%
Estimated Average Glucose	277.6		mg/dL

**Interpretation:**

Note: HbA1c results may vary in situations of abnormal red cell turnover, such as pregnancy, recent blood loss or transfusion, or some anemias. In such cases only blood glucose criteria should be used to diagnose diabetes (ADA, 2014). Please correlate clinically.

**Lipid profile** (Serum)

Cholesterol Total - Serum <i>Enzymatic colorimetric</i>	<b>231.0 H</b>	No risk: <200 Moderate risk: 200-239 High risk: >240	mg/dL
Triglycerides <i>Enzymatic colorimetry</i>	<b>229.6 H</b>	Normal: <150 Borderline-high: 150-199 High risk 200-499 Very high risk >500	mg/dL
Cholesterol - HDL (Direct) <i>Enzymatic colorimetric</i>	54.0	High Risk: <40 No Risk: >60	mg/dL
LDL Chol, Calculated	<b>131.08 H</b>	<100	mg/dL
VLDL (Very Low Density Lipoprotein) <i>Calculation</i>	<b>45.9 H</b>	<30	mg/dL
Cho/HDL Ratio <i>Enzymatic colorimetric &amp; Calculation</i>	<b>4.28 H</b>	Normal:<4.0 Low risk:4.0-6.0 High risk:>6.0	
LDL/HDL Ratio	2.43	Desirable/Low Risk: 0.5 - 3.0 Borderline/Moderate: 3.1 - 6.0 High Risk: >6.0	

**Liver Function Tests (LFT)** (Serum)

Bilirubin Total <i>Diazo method</i>	1.03	<1.1	mg/dL
Bilirubin Conjugated	<b>0.32 H</b>	<=0.2	mg/dL

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<b>Amfit Freedom Plus</b>			
<i>Diazo method</i>			
Bilirubin Unconjugated, Indirect	0.71	<1.0	mg/dL
<i>Calculation</i>			
Alanine aminotransferase - (ALT / SGPT)	<b>42 H</b>	< 41.0	U/L
<i>Kinetic IFCC</i>			
Aspartate Aminotransferase (AST/SGOT)	27	< 40	U/L
<i>IFCC kinetic</i>			
Alkaline Phosphatase - ALP	65.0	<129	U/L
<i>IFCC kinetic</i>			
Protein Total, Serum	7.6	6.4-8.3	g/dL
<i>Biuret Method</i>			
Albumin - Serum	4.8	3.5 - 5.2	g/dL
<i>Bromocresol green</i>			
Globulin	2.8	2.3-3.5	g/dL
<i>Calculation</i>			
A/G (Albumin/Globulin) Ratio	1.7	0.8-2.0	
<i>Calculation</i>			

**Interpretation:**

1. In an asymptomatic patient, Non alcoholic fatty liver disease (NAFLD) is the most common cause of increased AST, ALT levels. NAFLD is considered as hepatic manifestation of metabolic syndrome.
2. In most type of liver disease, ALT activity is higher than that of AST; exception may be seen in Alcoholic Hepatitis, Hepatic Cirrhosis, and Liver neoplasia. In a patient with Chronic liver disease, AST:ALT ratio>1 is highly suggestive of advanced liver fibrosis.
3. In known cases of Chronic Liver disease due to Viral Hepatitis B & C, Alcoholic liver disease or NAFLD, Enhanced liver fibrosis (ELF) test may be used to evaluate liver fibrosis.
4. In a patient with Chronic Liver disease, AFP and Des-gamma carboxyprothrombin (DCP)/PIVKA II can be used to assess risk for development of Hepatocellular Carcinoma.

**Gamma Glutamyl Transferase (GGT) (Serum)**

Gamma Glutamyl Transferase (GGT)	<b>81.0 H</b>	< 71	U/L
<i>Enzymatic colorimetric assay</i>			

**Urea (Serum)**

Urea	28.8	19 - 49	mg/dL
<i>Kinetic, Urease</i>			

**Blood Urea Nitrogen, BUN - Serum (Serum)**

Blood Urea Nitrogen (BUN)	13.46	8.8-20.5	mg/dL
<i>Calculation</i>			

**Creatinine (Serum)**

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<b>Amfit Freedom Plus</b>			
Creatinine <i>Modified Jaffe Kinetic</i>	1.00	0.70 - 1.20	mg/dL
<b>Uric acid (Serum)</b>			
Uric acid <i>Uricase</i>	3.8	3.4-7	mg/dL
<b>Electrolytes (Na, K, Cl) - Serum (Serum)</b>			
Sodium - Serum <i>ISE Indirect</i>	136.0	136 - 145	mmol/L
Potassium <i>ISE Indirect</i>	<b>3.30 L</b>	3.5-5.1	mmol/L
Chloride - Serum <i>ISE Indirect</i>	<b>94.4 L</b>	98-107	mmol/L
<b>Protein Total, Serum (Serum)</b>			
Protein Total, Serum <i>Biuret Method</i>	7.6	6.4-8.3	g/dL
<b>Calcium - Serum (Serum)</b>			
Calcium - Serum <i>NM-BAPTA</i>	9.20	8.6 - 10.0	mg/dL
<b>Iron Binding Capacity - Total (TIBC) (Serum)</b>			
Iron <i>FerroZine Colorimetric Assay</i>	<b>178.8 H</b>	59-158	µg/dL
Unsaturated Iron Binding Capacity (UIBC) <i>Direct determination with FerroZine</i>	188.1	125 - 345	µg/dL
Iron Binding Capacity - Total (TIBC) <i>Calculation</i>	366.9	228-428	µg/dL
Transferrin Saturation Index (TSI) <i>Calculation</i>	<b>48.7 H</b>	16-45	
<b>T3 - Total (Tri Iodothyronine) (Serum)</b>			
T3 - Total (Tri Iodothyronine) <i>ECLIA</i>	106.9	80.00 - 200.00	ng/dL
<b>T4 - Total (Thyroxine - Total) (Serum)</b>			
T4 - Total (Thyroxine - Total) <i>ECLIA</i>	8.10	5.1-14.1	µg/dL

**Interpretation:**

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**Amfit Freedom Plus**

**Note :**

1. Total T3 & T4 levels measure the hormone which is in the bound form and is not available to most tissues.
2. Severe systemic illness affects the thyroid binding proteins and can falsely alter Total T 4 levels in the absence of a primary thyroid disease. Hence Free T3 & T4 levels are recommended for accurate assessment of thyroid dysfunction.

**TSH, Thyroid Stimulating Hormone (Serum)**

TSH, Thyroid Stimulating Hormone ECLIA	2.530	0.27 - 4.21	µIU/mL
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**Interpretation:**

The following potential sources of variation should be considered while interpreting thyroid hormone results:

1. Circadian variation in TSH secretion: peak levels are seen between 2 -4 am. Minimum levels seen between 6 -10 am. This variation may be as much as 50% thus, influence of sampling time needs to be considered for clinical interpretation.
2. Total T3 and T4 levels are seen to have physiological rise during pregnancy and in patients on steroid treatment
3. Circulating forms of T3 and T4 are mostly reversibly bound with Thyroxine binding globulins (TBG), and to a lesser extent with albumin and Thyroid binding Pre-Albumin. Thus the conditions in which TBG and protein levels alter such as chronic liver disorders, pregnancy, excess of estrogens, androgens, anabolic steroids and glucocorticoids may cause misleading total T3, total T4 and TSH interpretations.
4. T4 may be normal in the presence of hyperthyroidism under the following conditions : T3 thyrotoxicosis, Hypoproteinemia related reduced binding, in presence of drugs (eg Phenytoin, Salicylates etc)
5. Neonates and infants have higher levels of T4 due to increased concentration of TBG
6. TSH levels may be normal in central hypothyroidism, recent rapid correction of hypothyroidism or hyperthyroidism, pregnancy, phenytoin therapy etc.
7. TSH values of <0.03 uIU/mL must be clinically correlated to evaluate the presence of a rare TSH variant in certain individuals which is undetected by conventional methods.
8. Presence of Autoimmune disorders may lead to spurious results of thyroid hormones
9. Various drugs can lead to interference in test results

It is recommended to evaluate unbound fractions, that is free T3 (fT3) and free T4 (fT4) for clinic-pathologic correlation, as these are the metabolically active forms.

**Vitamin B12 (Serum)**

Vitamin B12 ECLIA	514.30	197-771	pg/mL
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**Interpretation:**

Vitamin B12 also referred to as cobalamin is a water soluble vitamin. The uptake in the gastro intestinal track depends on intrinsic factor, which is synthesised by gastric parietal cells

**Deficiency state:**

- >Lack of intrinsic factor due to autoimmune atrophic gastritis
- >Mal-absorption due to gastrectomy
- >Inflammatory bowel disease
- >Dietary deficiency (strict vegans)
- >Vit B12 deficiency results in megaloblastic anaemia, peripheral neuropathy, dementia and depression

**Increased levels:**

- >VIT B12 supplement intake



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<b>Amfit Freedom Plus</b> >Polycythaemia Vera.			
<b>Vitamin D, 25-Hydroxy (Serum)</b> Vitamin D, 25-Hydroxy ECLIA	<b>21.6 L</b>	Deficient: <=20 Insufficiency: 20-29 Desirable: >=30-100 Toxicity: >100	ng/ml

**Interpretation:**

Vitamin D is a fat soluble vitamin produced in the skin by exposure to sun light. Deficiency in children causes rickets and in adults leads to osteomalacia

**Decreased levels:**

- >Impaired cutaneous production (lack of sunlight exposure)
- >Dietary absence
- >Malabsorption
- >Increased metabolism due to drugs like barbiturates, phenytoin.
- >Liver disease
- >Renal failure
- >VIT D receptor mutation

**Increased levels:**

- >Vitamin D intoxication due to increased vit D supplements intake





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Amfit Freedom Plus

**CLINICAL PATHOLOGY**

**Urine Examination - Routine & Microscopy (CUE) (Urine)**

**PHYSICAL EXAMINATION:**

Volume	20.00		mL
Colour	Pale Yellow	Pale	
Appearance	Clear	Clear	

**CHEMICAL EXAMINATION:**

pH	5.00	4.8 - 7.4	
<i>Dip stick</i>			
Specific Gravity	<b>1.025 H</b>	1.010 - 1.022	
<i>Dip Stick(Bromothymol blue)</i>			
Protein	Absent	Negative	
<i>Dip Stick/ Sulfosalicylic acid</i>			
<b>Glucose</b>	<b>Positive (1+)</b>	Negative	
<i>Dip Stick /Benedicts test</i>			
Ketones	Absent	Negative	
<i>Dip stick/Sodium nitroprusside reaction</i>			
Urobilinogen	Normal	Normal	
<i>Dip Stick / Ehrlich reaction</i>			
Leucocyte Esterase	Negative	Negative	
<i>Dip Stick</i>			
Nitrite	Negative	Negative	
<i>Dip Stick / (Griess test)</i>			
Bilirubin	Negative	Negative	
<i>Dipstick/diazo</i>			
Blood	Not Detected	Negative	
<i>Dip Stick ( Peroxidase)</i>			

**Microscopic Examination**

Pus Cells	4 - 5	0 - 5	/HPF
Epithelial Cells	1 - 2	< 5	/HPF
RBCs	Absent	0 - 5	/HPF
Casts	Absent	Absent	/LPF
Crystals	Absent	Absent	/HPF



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Amfit Freedom Plus			

*sample signature*

**Disclaimer:**

1. All results released pertain to the specimen as received by the lab for testing and under the assumption that the patient indicated or identified on the bill/test requisition form is the owner of the specimen.
2. Clinical details and consent forms, especially in Genetic testing, histopathology, as well as wherever applicable, are mandatory to be accompanied with the test requisition form. The non-availability of such information may lead to delay in reporting as well as misinterpretation of test results. The lab will not be responsible for any such delays or misinterpretations thereof.
3. Test results are dependent on the quality of the sample received by the lab. In case the samples are preprocessed elsewhere (e.g., paraffin blocks), results may be compromised.
4. Tests are performed as per the schedule given in the test listing and in any unforeseen circumstances, report delivery may be affected.
5. Test results may show inter-laboratory as well as intra-laboratory variations as per the acceptable norms.
6. Genetic reports as well as reports of other tests should be correlated with clinical details and other available test reports by a qualified medical practitioner. Genetic counselling is advised in genetic test reports by a qualified genetic counsellor, medical practitioner or both.
7. Samples will be discarded post processing after a specified period as per the laboratory's retention policy. Kindly get in touch with the lab for more information.
8. If accidental damage, loss, or destruction of the specimen is not attributable to any direct or negligent act or omission on the part of Ampath Labs or its employees, Ampath shall in no event be liable. Ampath lab's liability for a lack of services, or other mistakes and omissions, shall be restricted to the amount of the patient's payment for the pertinent laboratory services.

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