

LABORATORY REPORT

NAME :	██████████	REFERRED BY :	████	VISIT NO :	██████████
AGE :	██████████	██████████	██████████	COLLECTED ON :	██████████
GENDER :	████	LAB MR# :	██████████	RECEIVED ON :	██████████
OP / IP / DG # :				APPROVED ON :	██████████
				REPORT STATUS :	Final Report



Test Name	Result	Biological Ref. Interval	Unit
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Am-Fit (With Vitamin D)

HAEMATOLOGY

Complete Blood Counts (Whole Blood - EDTA)

(Automated Hematology Analyzer & Microscopy)

Hemoglobin	12.7	12.0 - 15.0	g/dL
RBC Count	4.6	3.8 - 4.8	10 ⁶ /μL
Hematocrit	39.5	36 - 46	%
MCV(Mean Corpuscular Volume)	86.2	83 - 101	fL
MCH(Mean Corpuscular Hemoglobin)	27.7	27 - 32	pg
MCHC(Mean Corpuscular Hemoglobin Concentration)	32.2	31.5 - 34.5	g/dL
RDW	13.2	11.6 - 14	%
Total Leukocyte Count	5.2	4.0 - 11.0	10 ³ /μl

Electrical impedance/Cell counter

Differential count % (VCSn Technology & light microscopy)

Neutrophils	65.0	40-80%	%
Lymphocytes	30.0	20-40%	%
Monocytes	3.0	2-10%	%
Eosinophils	2.0	1-6%	%
Basophils	0.0	0-1%	%

Differential Counts, Absolute(calculated)

Absolute Neutrophil Count	3.38	2.0-7.0	10 ³ /μl
Absolute Lymphocyte Count	1.56	1.0-3.0	10 ³ /μl
Absolute Monocyte Count	0.16 L	0.2 - 1.0	10 ³ /μl
Absolute Eosinophil Count (AEC)	0.10	0.02 - 0.5	10 ³ /μl
Absolute Basophil Count	0.00	0.02 - 0.1	10 ³ /μl
Platelet Count	189	150 - 410	10 ³ /μl

Electrical impedance/Cell counter or Manual

MPV	12.6 H	7.5 - 11.5	fL
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Am-Fit (With Vitamin D)			
BIOCHEMISTRY			
Glucose - Fasting (Fluoride Plasma - F)			
Glucose - Fasting <i>Oxidase & Peroxidase</i>	121.0 H	Normal:74-100 Pre-diabetic:100-125 Diabetic: >=126	mg/dL
Cholesterol Total - Serum (Serum)			
Cholesterol Total - Serum <i>Enzymatic colorimetric</i>	143.0	<200 Desirable 200-239 Boderline >240 High	mg/dL
Triglycerides (Serum)			
Triglycerides <i>Enzymatic colorimetric</i>	115.0	Normal: <150 Borderline-: 150-199 High risk 200-499 Very high risk >500	mg/dL
Aspartate Aminotransferase (AST/SGOT) (Serum)			
Aspartate Aminotransferase (AST/SGOT) <i>Kinetic IFCC</i>	13	8 - 38	U/L
Alanine aminotransferase - (ALT / SGPT) (Serum)			
Alanine aminotransferase - (ALT / SGPT) <i>Kinetic IFCC</i>	12	4 - 44	U/L
Uric acid (Serum)			
Uric acid <i>Uricase</i>	3.7	3.0 - 5.5	mg/dL
Creatinine (Serum)			
Creatinine <i>Modified Jaffe Kinetic</i>	0.60	0.6 - 1.1	mg/dL
TSH, Thyroid Stimulating Hormone (Serum)			
TSH, Thyroid Stimulating Hormone <i>CLIA</i>	1.426	0.55 -4.78	µIU/mL

Interpretation:

TSH levels are subject to circadian variation, reaching peak levels between 2 - 4.a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations.

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Am-Fit (With Vitamin D)

Alteration in concentration of Thyroid hormone binding protein can profoundly affect Total T3 and/or Total T4 levels especially in pregnancy and in patients on steroid therapy. Unbound fraction (Free,T4 /Free,T3) of thyroid hormone is biologically active form and correlate more closely with clinical status of the patient than total T4/T3 concentration. Values <0.03 uIU/mL need to be clinically correlated due to presence of a rare TSH variant in some individuals.

Trimester specific guidelines recommended by American Thyroid Association(ATA) is as follow.

Pregnant women	µIU/mL
1st trimester	0.10-2.5
2nd trimester	0.20-3.0
3rd trimester	0.30-3.0

Vitamin D, 25-Hydroxy (Serum)

Vitamin D, 25-Hydroxy **5.5 L** Deficiency<20 ng/mL
 CLIA Insufficiency 20-30
 Sufficiency 30- 100

Interpretation:

Severe vitamin D deficiency causes rickets in children and Osteomalacia in adults. Vitamin D assay is used for monitoring vitamin D replacement therapy.

██████████
 ██████████
 Consultant Biochemist

██████████
 ██████████
 Consultant Pathologist

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

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<p>Am-Fit (With Vitamin D) be affected.</p> <p>5. Test results may show inter-laboratory as well as intra-laboratory variations as per the acceptable norms.</p> <p>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.</p> <p>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.</p> <p>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.</p>			
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