

**Ayass Bioscience LLC.**

8501 Wade Blvd. BLDG 9
 Frisco, TX 75034
 Phone: (972) 668-6005 Fax: (972) 668-6720
 CLIA: 45D2034851

LABORATORY REPORT**FINAL****ORDERED BY**

AYASS, MOHAMAD AMMAR M.D.
 AYASS LUNG CLINIC, PLLC
 3021 GREEN MEADOW DRIVE
 SAN ANGELO, TX 76904
 Acct #: XXXXXX
 P: (325) 223-1800 F: (325) 223-1810

PATIENT

Last Name, Name
 DOB: XX/XX/XXXX
 Sex: Female
 ID: XXXXXX
 P: (XXX) XXX-XXXX
 Chart/EMR:

SPECIMEN

Accession : XXXXXXXXX
 Collected : XX/XX/XXXX 11:25
 Received : XX/XX/2026 10:15
 Reported : XX/XX/XXXX 17:21
 Sources : Lavender (WB), SST, Blue
 Top, Grey, Lavender Top (P),
 SST - Room Temp

Test Name	Result	Flag/Interpret	Range/Cutoff	Units	Lab
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Abnormal Result(s) Summary

Summary may not contain all abnormal results, especially those of Tests with an interpretation. Please review the entire report.

TEST NAME	RESULT	INTERPRETATION	RANGE/CUT OFF
URIC ACID	6.7	H	2.5 - 6.2
BUN/CREATININE RATIO	11.3	L	11.7 - 18.3
CHOLESTEROL	217.0	Borderline High	0 - 199
TRIGLYCERIDES	236.0	H	0 - 149
LDL (CALCULATED)	104.0	Above Desirable	0 - 99
MYOGLOBIN	8.8	L	14.3 - 65.8
T4 TOTAL	3.44	L	6.1 - 12.2
PROLACTIN	1.95	L	2.64 - 26.72
APOLIPOPROTEIN B/A1 RATIO	0.77	Moderate risk	0.00 - 0.29
C1q CIC	4.44	EQUIVOCAL	0.00 - 4.39
ABSOLUTE MONOCYTES	0.44	H	0.24 - 0.36
BNP	16	L	25 - 100
LA Ratio	1.49	A	0.00 - 1.26
SILICA CLOTTING TIME CONFIRM	1.46	H	0.84 - 1.16
FACTOR II ACTIVITY	136.2	H	83.8 - 133.9
NON HDL CHOLESTEROL	152	A	0 - 129
25 OH Vitamin D Total	23.61	Insufficient	30.00 - 100.00
IgE, Total	1030	HIGH	0.0 - 114.0

HEMATOLOGY

IRON (Fe), TOTAL	82.0	37 - 181	ug/dL
WHITE BLOOD CELL COUNT	6.63	3.98 - 10.04	10e3/uL
RED BLOOD CELL COUNT	4.49	3.93 - 5.22	10e6/uL
HEMOGLOBIN	14.3	11.2 - 15.7	g/dL
HEMATOCRIT	40.8	34.1 - 44.9	%
MCV	90.9	79.4 - 94.8	fL
MCH	31.8	25.6 - 32.2	pg
MCHC	35.0	32.2 - 35.5	g/dL
ABSOLUTE LYMPHOCYTES	1.63	1.18 - 3.74	cells/uL
LYMPHOCYTES	24.6	19.3 - 51.7	%
NEUTROPHILS	65.6	34.0 - 71.1	%
ABSOLUTE NEUTROPHILS	4.35	1.56 - 6.13	cells/uL
MONOCYTES	6.6	4.7 - 12.5	%

Lab Director: HOUSINI, IHSAN M.D.

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ABSOLUTE MONOCYTES	0.44	H	0.24 - 0.36	cells/uL	
EOSINOPHILS	2.3		0.7 - 5.8	%	
ABSOLUTE EOSINOPHILS	0.15		0.04 - 0.36	cells/uL	
BASOPHILS	0.9		0.1 - 1.2	%	
ABSOLUTE BASOPHILS	0.06		0.01 - 0.08	cells/uL	
PLATELET COUNT	333		182 - 369	Thousand/uL	
RDW	12.4		11.7 - 14.4	%	
MPV (Mean Platelet Volume)	9.7		9.4 - 12.3	fL	
CLINICAL CHEMISTRY					
SODIUM (NA+)	138.0		137.0 - 146.0	mmol/L	
POTASSIUM (K+)	4.2		3.50 - 5.10	mmol/L	
CHLORIDE (CL-)	104.0		98 - 107	mmol/L	
CARBON DIOXIDE, TOTAL (tCO2)	28.0		22 - 30	mmol/L	
UREA NITROGEN (BUN)	9.0		9 - 20	mg/dL	
CREATININE (CRE)	0.8		0.5 - 1.0	mg/dL	
GLUCOSE (GLU)	100.0		73 - 106	mg/dL	
CALCIUM (CA)	10.0		8.4 - 10.2	mg/dL	
PROTEIN, TOTAL (TP)	7.3		6.3 - 8.2	g/dL	
ALBUMIN, SERUM (ALB)	4.6		3.5 - 5.0	g/dL	
ASPARTATE AMINOTRANSFERASE (AST)	24.0		15 - 46	U/L	
ALANINE AMINOTRANSFERASE (ALT)	36.0		13 - 69	U/L	
BILIRUBIN, TOTAL (TBIL)	.4		0.2 - 1.3	mg/dL	
BUN/CREATININE RATIO	11.3	L	11.7 - 18.3		
ALKALINE PHOSPHATASE (ALP)	52.0		38.00 - 126.00	U/L	
eGFR (Non-African American)	107.07		90.00 - 1000.00	mL/min/1.73 m ²	
eGFR (African American)	129.76		90.00 - 1000.00	mL/min/1.73 m ²	

Stages of Kidney Failure:

Stage	Kidney Function/eGFR	Description
Stage 1	>90%	Normal or High Function
Stage 2	60-89%	Mildly Decreased Function
Stage 3	30-59%	Mild to Moderately Decreased Function

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Stage 4	15-29%	Severely Decreased Function			
Stage 5	<15%	Kidney Failure			

NOTE: Ranges/Stages above apply to both African American and Non-African American adult patients.

COAGULATION

INR	1.01		0.00 - 1.17	RATIO	
PT RecombiPlasTin	10.8		9.4 - 12.5	Second	
FIBRINOGEN (Thrombin)	261		194 - 448	mg/dL	
D-DIMER	54		0 - 232	ng/mL	
[D-Dimer Reference Value: < or = 1.14 mg/L]					
APCR (FACTOR V LEIDEN)	3.59		2.16 - 100.00	TR	
FREE PROTEIN S	133.2		65.8 - 146.7	%	
FACTOR IX ACTIVITY	114.0		65.0 - 150.0	%	
FACTOR VIII ACTIVITY	84.9		50.0 - 150.0	%	
ANTI-THROMBIN LIQUID	117.8		83 - 128	%	
LA Ratio	1.49	A	0.00 - 1.26	TR	
HOMOCYSTEINE	6.25		4.50 - 11.10	umol/L	
SILICA CLOTTING TIME CONFIRM	1.46	H	0.84 - 1.16	TR	
APTT SYNTHASIL	33.3		25.1 - 36.5	s	
PROTEIN C ACTIVITY	131.0		70 - 140	%	
FACTOR XI ACTIVITY	118.2		65.0 - 150.0	%	
FACTOR II ACTIVITY	136.2	H	83.8 - 133.9	%	
FACTOR V ACTIVITY	124.4		62.0 - 139.0	%	
FACTOR VII ACTIVITY	130.8		65.6 - 188.0	%	
FACTOR X ACTIVITY	134.3		74.2 - 194.0	%	
FACTOR XII ACTIVITY	92.0		50.0 - 150.0	%	
PLASMINOGEN	129.4		78.4 - 140.2	%	
PLASMIN INHIBITOR	114		92.0 - 124.0	%	

IMMUNOLOGY

C1q CIC **4.44** EQUIVOCAL ug Eq/mL

[<4.4 : Neg] [4.4 - <10.8 : Equiv] [= or >10.8 : Pos]

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ANTI-HISTONE	0.29	NEGATIVE		UNITS	
[<1.0 : Neg] [1.0 - 1.5 : Weak Pos] [1.6 - 2.5: Moderate Pos][>2.5 : Strong Pos] "The above result was obtained with the Inova Quanta Lite Histone ELISA. Histone values obtained with different manufacturer's assay methods may not be used interchangeably. The magnitude of the reported IgG levels cannot be correlated to an endpoint titer."					
ANTI-RIBOSOME P	1.45	NEGATIVE		UNITS	
[<20 : Neg] [20 - 39 : Weak Pos] [40 - 80: Moderate Pos][>80 : Strong Pos] "The above result was obtained with the Inova Quanta Lite Ribosome P ELISA. Ribosome P values obtained with different manufacturer's assay methods may not be used interhcangeably. The magnitude of the reported IgG levels cannot be correlated to an endpoint titer."					
ANTI-CHROMATIN	4.36	NEGATIVE		UNITS	
[<20 : Neg] [20 - 60 : Moderate Pos][>60 : Strong Pos] "The above result was obtained with the Inova Quanta Lite Chromatin ELISA. Chromatin values obtained with different manufacturer's assay methods may not be used interchangeably. The magnitude of the reported IgG levels cannot be correlated to endpoint titer."					
dsDNA ANTIBODIES	1.4	NEGATIVE		IU/ml	
[<10 : Negative] [10-15 : Equivocal] [>15 : Positive]					
U1RNP ANTIBODIES	2.1	NEGATIVE		U/ml	
[<5 : Negative] [5-10 : Equivocal] [>10 : Positive]					
SCL-70 ANTIBODIES	1.8	NEGATIVE		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
JO-1 ANTIBODIES	<0.3	NEGATIVE		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
ANTI-CENTROMERE	0.4	NEGATIVE		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
SSA (Ro) ANTIBODIES	<0.4	NEGATIVE		EliA U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
RNP-70 ANTIBODIES	0.9	NEGATIVE		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
SSB (La) ANTIBODIES	<0.4	NEGATIVE		EliA U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
ANTI-CCP	1.6	NEGATIVE		EliA U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
RHEUMATOID FACTOR IgA	3.2	NEGATIVE		IU/ml	
[<14 : Negative] [14-20 : Equivocal] [>20 : Positive]					

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RHEUMATOID FACTOR IgM	1.3	NEGATIVE		IU/ml	
[<3.5 : Negative] [3.5-5 : Equivocal] [>5 : Positive]					
CARDIOLIPIN ANTIBODIES IgG	1.1	NEGATIVE		GPL-U/ml	
[<10 : Negative] [10-40 : Weak Positive] [>40 : Positive]					
CARDIOLIPIN ANTIBODIES IgA	2.5	NEGATIVE		APL-U/ml	
[<14 : Negative] [14-20 : Equivocal] [>20 : Positive]					
CARDIOLIPIN ANTIBODIES IgM	<0.9	NEGATIVE		MPL-U/ml	
[<10 : Negative] [10-40 : Weak Positive] [>40 : Positive]					
BETA 2 GLYCOPROTEIN IgG	1.1	NEGATIVE		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
BETA 2 GLYCOPROTEIN IgM	<2.4	Negative		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
BETA 2 GLYCOPROTEIN IgA	1.9	NEGATIVE		U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
MPO - MYELOPEROXIDASE ANTIBODY	1.3	NEGATIVE		U/ml	
[<3.5 : Negative] [3.5-5.0 : Equivocal] [>5.0 : Positive]					
PR3 - PROTEINASE-3 ANTIBODY	<0.6	NEGATIVE		U/ml	
[<2.0 : Negative] [2.0-3.0 : Equivocal] [>3.0 : Positive]					
GBM ANTIBODIES	<1.5	NEGATIVE		ELiA-U/ml	
[<7 : Negative] [7-10 : Equivocal] [>10 : Positive]					
SMITH D(p)-S ANTIBODIES	<0.7	NEGATIVE	7.00	EliA U/ml	

ENDOCRINOLOGY/HORMONES

FERRITIN	50.0		11.0 - 306.8	ng/mL	
MYOGLOBIN	8.8	L	14.3 - 65.8	ng/mL	
CK-MB	0.5		0.5 - 6.3	ng/ml	
PROLACTIN	1.95	L	2.64 - 26.72	ng/mL	
Gender		Reference Ranges			
Males		2.64-13.13ng/mL			
Females					
Premenopausal (<50 years of age)		3.34-26.72ng/mL			
Postmenopausal (>50 years of age)		2.74-19.64ng/mL			
PROGESTERONE	2.76		0.0 - 18.6	ng/mL	
Non-pregnant females: [mid-follicular phase: 0.31-1.52] [mid-luteal phase: 5.16-18.56][postmenopausal(not on hormone					

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therapy): <0.08-0.78]

Pregnancy: [first trimester: 4.73-50.74] [second trimester: 19.41-45.30]

VITAMIN B12	212		180 - 914	pg/mL	
FOLIC ACID (FOLATE)	7.70		5.9 - 25.0	ng/mL	
TESTOSTERONE TOTAL	0.13		0.00 - 0.75	ng/mL	

95% REFERENCE INTERVAL Males. (Age Range 18 - 66).....1.75 - 7.81 ng/mlFemales.(Age Range 21 - 73).....<0.1 - 0.75 ng/ml

DHEA-SULFATE	48.6		23.0 - 266.0	ug/dL	
Females:[18-21 yrs: 51-321][21-30 yrs: 18-391][31-40 yrs: 23-266][41-50 yrs: 19-231][51-60 yrs: 8-188][61-70 yrs: 12-133][>71 yrs: 7-177]					
Males:[18-21 yrs: 24-537][21-30 yrs: 85-690][31-40 yrs: 106-464][41-50 yrs: 70-495][51-60 yrs: 38-313][61-70 yrs: 24-244][>71 yrs: 5-253]					

sTFR	11.96		0.00 - 21.00	nmol/ml	
INTRINSIC FACTOR BLOCKING AB,SERUM	Negative		0.00 - 1.19	AU/mL	
<1.20 AU/mL: Negative][=1.20 to <1.53 AUL/mL: Equivocal][=1.53 AU/mL: Positive]					

BNP	16	L	25 - 100	pg/mL	
ERYTHOPOIETIN (EPO)	6.22		2.59 - 18.50	mIU/mL	
25 OH Vitamin D Total	23.61	In	30.00 - 100.00	ng/ml	

In 2011, the Clinical Guidelines Subcommittee of the Endocrine Society Task Force established the guidelines below for recommended serum 25(OH) vitamin D levels:

Deficient: <20 ng/mL
 Insufficient: 20 to <30 ng/mL
 Sufficient: 30 - 100 ng/mL
 Upper Safety Limit: >100

TROPONIN (High Sensitive)	<0.00		0.00 - 0.03	ng/mL	
ESTRADIOL (High Sensitive)	106.98		19.3 - 622.0	pg/mL	

Females Population	Age	Range (pg/mL)
Pediatrics	0 to <1	32.6 - 43.7
Pre-Puberty	1 to <12	<15.0 - 20.3
Puberty	12 to <19	162 - 230

For Non-Pregnant females with regular menstrual cycles:

Stages (Rage of days from hLH Peak - Day 0)	Range (pg/mL)
Early Follicular (Days: -14 to -10)	20.0 - 157.0
Mid. Follicular (Days: -9 to -4)	20.7 - 139.0

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Ovulatory Peak (Days: 0)		19.3-622.0			
Mid. Luteal (Days: +4 to +11)		25.8 – 279.0			
For Post-Menopausal Not on Hormone Therapy		19.9-30.0			
Males					
Population	Age	Range (pg/mL)			
Pediatrics	0 to <1	32.6 – 43.7			
Pre-Puberty	1 to <12	<15.0			
Puberty	12 to <19	30.8 – 38.7			
Adult Males	> or =19	29.8-33.1			

LIPIDS

CHOLESTEROL	217.0	Bo	0 - 199	mg/dL
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The National Lipid Association and the National Cholesterol Education Program (NCEP) has set the following guidelines for lipids (total cholesterol, triglycerides, HDL, LDL and non HDL cholesterol) in adults ages 18 and up in mg/dL:

- 1) CHOLESTEROL: ADULTS: [Desirable: <200] [Borderline high: 200-239] [High: > or =240]
- 2)TRIGLYCERIDES: [Normal: <150] [Borderline high: 150-199] [High: 200-499] [Very high: > or = 500]
- 3) HDL Cholesterol: [Males: > = 40] [Females: > or = 50]
- 4) LDL Cholesterol: [Desirable:<100] [Above Desirable:100-129] [Borderline high:130-159] [High;160-189] [Very high: >= 190]
- 5) NON HDL Cholesterol: [Desirable:<130] [Above Desirable:130-159] [Borderline high:160-189] [High;190-219] [Very high: >= 200]

The Expert Panel on Integrated Guidelines for Cardiovascular Health and Risk Reduction in Children and Adolescents has set the following guidelines for lipids (total cholesterol, triglycerides, HDL, LDL and non HDL cholesterol) in children ages 2-17 in mg/dL:

- 1)TOTAL CHOLESTEROL: [Acceptable: <170] [Borderline high: 170-199] [High: > or =200]
- 2)TRIGLYCERIDES: CHILD (2-9 yrs): [Acceptable: <75] [Borderline high: 75-99] [High: > or =100]
CHILD (10-17 yrs): [Acceptable: <90] [Borderline high: 90-129] [High: > or =130]
- 3) HDL Cholesterol: [Low : < 40] [Borderline Low: 40-45] [Acceptable: > 45]
- 4) LDL Cholesterol: [Acceptable:<110] [Borderline high:120-129] [High; > or = 130]
- 5) NON HDL Cholesterol: [Acceptable:<120] [Borderline high:120-144] [High; > or = 145]

TRIGLYCERIDES	236.0	H	0 - 149	mg/dL
HDL CHOLESTEROL	65.0		50 - 1000	mg/dL
VLDL CHOLESTEROL	47.0			mg/dL
LDL (CALCULATED)	104.0	Above Desirable	0 - 99	mg/dL
CHOL/HDL RATIO	3.3			
NON HDL CHOLESTEROL	152	A	0 - 129	mg/dL

THYROID

T4 TOTAL	3.44	L	6.1 - 12.2	ug/dL
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FREE T3	3.86		2.50 - 3.90	pg/mL	
TG (THYROGLOBULIN)	15.84		1.2 - 130.8	ng/mL	
ANTI-THYROGLOBULIN	14	NORMAL	40.00	IU/ml	
[<40 : Negative] [40-60 : Equivocal] [>60 : Positive]					
ANTI-THYROID PEROXIDASE	<4	NORMAL	25.00	IU/ml	
[<25 : Negative] [25-35 : Equivocal] [>35 : Positive]					
TSH	1.597		0.45 - 5.33	uIU/mL	
Population Reference Range (uIU/mL)					
General population (Males and non-pregnant females, aged 21-88)		0.45-5.33			
Pregnant Females (1st Trimester)		0.05 - 3.70			
Pregnant Females (2nd Trimester)		0.31 - 4.35			
Pregnant Females (3rd Trimester)		0.41 - 5.18			
SPECIAL CHEMISTRY					
PHOSPHORUS	3.3		2.5 - 4.5	mg/dL	
URIC ACID	6.7	H	2.5 - 6.2	mg/dL	
LACTATE DEHYDROGENASE (LDH)	189.0		120 - 246	U/L	
CREATINE KINASE (CK), TOTAL	42.0		30 - 135	U/L	
MAGNESIUM (Mg)	2.0		1.6 - 2.3	mg/dL	
LACTATE	1.5		0.70 - 2.10	mmol/L	
CARDIOVASCULAR					
CRP - HI SENSITIVE	0.255		0.000 - 0.742	mg/dL	
APOLIPOPROTEIN A1	184		107.0 - 214.0	mg/dL	
APOLIPOPROTEIN B	142		51.0 - 171.0	mg/dL	
APOLIPOPROTEIN B/A1 RATIO	0.77	Mo	0.00 - 0.29		
MALE: [<0.40: Normal] [0.40-0.69: Low risk] [0.70-0.89: Moderate risk] [0.90-1.10: High risk]					
FEMALE: [<0.30: Normal] [0.30-0.59: Low risk] [0.60-0.79: Moderate risk] [0.80-1.00: High risk]					
ALLERGY / ASTHMA					
IgG, Total	1330		751 - 1560	mg/dL	
IgA, Total	150		82 - 453	mg/dL	
IgM, Total	138		46.0 - 304.0	mg/dL	

Lab Director: HOUSINI, IHSAN M.D

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LABORATORY REPORT

FINAL

ORDERED BY

AYASS, MOHAMAD AMMAR M.D.
 AYASS LUNG CLINIC, PLLC
 3021 GREEN MEADOW DRIVE
 SAN ANGELO, TX 76904
 Acct #: XXXXXX
 P: (325) 223-1800 F: (325) 223-1810

PATIENT

Last Name, Name
 DOB: XX/XX/XXXX
 Sex: Female
 ID: XXXXXX
 P: (XXX) XXX-XXXX
 Chart/EMR:

SPECIMEN

Accession : XXXXXXXXX
 Collected : XX/XX/XXXX 11:25
 Received : XX/XX/2026 10:15
 Reported : XX/XX/XXXX 17:21
 Sources : Lavender (WB), SST, Blue
 Top, Grey, Lavender Top (P),
 SST - Room Temp

Test Name	Result	Flag/Interpret	Range/Cutoff	Units	Lab
IgE, Total	1030	HIGH	0.0 - 114.0	kU/L	
RENAL					
C3 (COMPLEMENT C3)	127		79.0 - 152.0	mg/dL	
C4	20.6		16.0 - 38.0	mg/dL	
PULMONARY					
ALPHA-1 ANTITRYPSIN	144		88 - 174	mg/dL	
DIABETES					
HEMOGLOBIN A1C (HbA1c)	5.3		4.3 - 5.6	%	
Non Diabetic	<6%				
	Excellent Control	6-7%			
	Good to Fair Control	>7-8%			
	Suboptimal Glycemic Control	>8%			
ESTIMATED AVERAGE GLUCOSE (eAG)	105				
INSULIN	7.85		1.90 - 23.00	uIU/mL	

>>> END OF REPORT <<<

Lab Director: HOUSINI, IHSAN M.D

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