

Bio-Center Laboratory


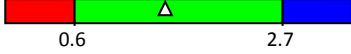





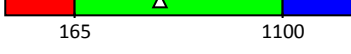


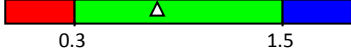

3100 N. Hillside, Wichita, KS 67219
(316) 684-7784; Fax (316) 682-2062

CLIA #: 17D0648333

Lab Director: Charles Hinshaw, M.D.

Medicare # 008052

Red=Needs Improvement **Green**= Within Acceptable Range (+ 2 Standard Deviations) **Blue**= Beyond the Expected Range *Below Detectable Limit

<u>Test Name</u>	<u>Result</u>	<u>Units</u>	<u>Reference Range</u>	<u>Previous Result</u>	
				<u>02/22/2019</u>	<u>11/13/2017</u>
VITAMINS / NUTRIENTS					
Vitamin A	41	ug/dL		50	50
Vitamin E	1.5	mg/dL		3.0 H	1.2
Beta Carotene	2 L	ug/dL		66 H	66 H
Lutein	9	ug/dL		12	2 L
Lycopene	27	ug/dL		21	22
Vitamin C, Plasma	0.1 L	mg/dL		0.8	1.5
Vitamin C, Urine	1 L	mg/dL		50	50
Vitamin B12	548	pg/mL		1300 H	777
Optimal levels are achieved when test results lie between 1000-2000 pg/mL.					
Vitamin D (25-OH-D)	21 L	ng/mL		38 L	44
Folic Acid (Folate)	3.3 L	ng/mL		18.0 H	12.2
Coenzyme Q10	0.8	ug/mL		1.0	0.4
B ASSESSMENT PROFILE					
Vitamin B1	59	ug/L		80	76

Name: Doe, John

Acct. Number: 0001

Sample #: 42601

DOB: 12/14/1976 Age: 46 Y

Sex: M

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Strontium, Urine	0.016	ug/mL	 0.012 0.132		0.111
Glutamine	59	umol/dL	 40 90	44	44
Taurine	4.0	umol/dL	 3.2 7.6	5.0	5.0
AMINO ACID ESSENTIALS					
HISTIDINE	4.9	umol/dL	 3.8 9.0	7.3	7.3
THREONINE	13.6	umol/dL	 5.5 14.1	11.2	11.2
ARGININE	3.9	umol/dL	 1.5 6.0	5.9	6.1 H
VALINE	39.3 H	umol/dL	 14.0 36.0	27.9	27.9
METHIONINE	3.9	umol/dL	 1.6 4.5	2.1	2.1
ISOLEUCINE	8.2	umol/dL	 2.0 8.4	4.9	4.9
LEUCINE	24.8 H	umol/dL	 10.0 24.0	13.4	13.4
PHENYLALANINE	7.4	umol/dL	 3.5 8.4	5.9	5.9
TRYPTOPHAN	0.4	umol/dL	 0.2 1.2	0.5	0.5
LYSINE	24.5	umol/dL	 10.0 32.0	16.8	16.8
THYROID TESTING					
Free T3	2.63	pg/mL	 1.71 3.71	2.10	6.00 H

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Free T4	1.01	ng/dL	 0.60 1.33	0.81	
TSH	2.13	uIU/mL	 0.40 2.80	2.1	
DHEA-S	34 L	ug/dL	 59 452	300	222
Progesterone	<0.1	ng/mL		30.0	
Adult Male: 0.1 - 0.2 Adult Female: Follicular Phase: 0.1 - 0.3 Luteal Phase: 1.2 - 15.9 Pregnant First Trimester: 2.8 - 147.3 Second Trimester: 22.5 - 95.3 Third Trimester: 27.9 - 242.5 Postmenopausal: 0.1 - 0.2					
Estradiol	44	pg/mL		10	
Menstruating Female: Follicular Phase: 39 - 189 Mid-cycle Peak: 94 - 508 Luteal Phase: 48 - 309 Postmenopausal: < 41 Males: < 77					
Total Testosterone	611	ng/dL	225-972	1505 H	

The normal range attached to your result if you are a male, is for ages 18-70 years and if you are a female, it is for 18-62 years of age.

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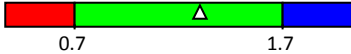

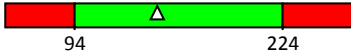


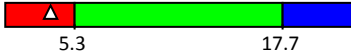



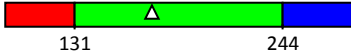
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FATTY ACIDS, OMEGA 6-RBC					
Linoleic	233	uM/L		160	235 H
Gamma Linolenic	1.3	uM/L		0.9	1.3
Dihomogammalinolenic	29.8	uM/L		16.0	20.0
Arachidonic	145	uM/L		160	150
Total Omega-6	409.1	uM/L		336.9	406.3
FATTY ACIDS, OMEGA 3-RBC					
Alpha Linolenic	2.2	uM/L		2.5	1.3
Eicosapentaenoic (EPA)	4.1 L	uM/L		19.0 H	6.0
Docosahexaenoic (DHA)	25	uM/L		102 H	50
Total Omega-3	31.3	uM/L		123.5 H	57.3
Arachidonic/EPA	35.4 H	Ratio		8.4	25.0 H
FATTY ACID- MONOUNSAT-RBC					
Oleic	174	uM/L		202	110 L
FATTY ACID, UNSAT-RBC					

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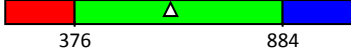

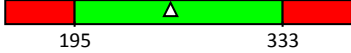



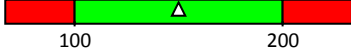



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Total Unsaturated	614	uM/L		662	574
FATTY ACID SATURATED-RBC					
Palmitic	470	uM/L		425	400
Stearic	260	uM/L		250	220
Total Saturated	730	uM/L		675	620
Unsat/Saturated Ratio	0.84			0.98	0.93
TRANS FATTY ACID-RBC					
Elaidic (C-18)	4.5	uM/L		9.0 H	5.0
LIPID PANEL					
Cholesterol	150	mg/dL		178	211 H
Optimal levels are achieved when results lie between 160 and 200 mg/dL					
Triglycerides	115	mg/dL		55	55
HDL Cholesterol	41	mg/dL		50	50
VLDL	23	mg/dL		11	11

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LDL	86	mg/dL		117 H	150 H
LDL Risk Classification Adult (mg/dL) Desirable <100 Borderline Risk 100-159 High Risk >160 Note: Optimal Levels are between 50-100					
Cholesterol/HDL Ratio	3.7	Ratio		3.6	4.2
Cholesterol/HDL Ratio Risk Classification Male Female 1/2 average risk <3.4 <3.3 Average Risk 3.4-5.0 3.3-4.4 2 times average risk 5.1-9.6 4.5-7.1 3 times average risk 9.7-23.0 7.2-11.0 Note: Optimal levels are between 2.0-4.0					
LDL/HDL Ratio	2.1	Ratio		2.3	3.0
LDL/HDL Ratio Risk Classification Male Female 1/2 average risk <1.0 <1.5 Average Risk 1.0-3.6 1.5-3.2 2 times average risk 3.7-6.3 3.3-5.0 3 times average risk 6.4-8.0 5.1-6.1 Note: Optimal levels are between 0.5-2.5					
Trig/HDL	3	Ratio		1	1
COMPLETE BLOOD COUNT					
White Blood Cells	9.8	K/uL		6.8	
Red Blood Cells	5.07	M/uL		5.23	

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Hemoglobin	14.4	g/dL		12.8	L
Hematocrit	44.5	%		40.8	
MCV	88	fL		82	
MCH	28	g/dL		38	H
MCHC	32	g/L		33	
RDW	13.5	%		14.2	
Platelets	268	K/uL		302	
CBC Differential					
Neut	50	%		60	
Lymph	37	%		25	
Mono	4	%		9	
Eos	7	H %		5	
Baso	2	%		1	
Lipoprotein (a)	<8.4	nmol/L		55	B
K/Na Urine	1.32	H Ratio		2.50	H B

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CHEMISTRY PROFILE					
Glucose	90	mg/dL		65	I
Uric Acid	5.0	mg/dL		4.5	I
Therapeutic target for gout patients: <6.0 mg/dL					
BUN	15	mg/dL		15	I
Creatinine	0.80	mg/dL		0.72 L	I
For patients >49 years of age, the upper reference limit for creatinine is approximately 13% higher for people identified as African-American.					
BUN/CRE			6-22		I
Not Applicable					
eGFR	110			105	I
The eGFR is based on the CKD-EPI 2021 equation. Reference Range: > OR = 60 mL/min/1.73 m ²					
Sodium	140	mmol/L		152 H	I
Potassium	4.5	mmol/L		4.8	I
Chloride	103	mmol/L		102	I
Carbon Dioxide (CO2)	31	mmol/L		25	I
Calcium	9.5	mg/dL		9.9	I
Phosphorus	4.3	mg/dL		3.6	I
Protein, Total	7.3	g/dL		7.8	I

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Albumin	4.5	g/dL		5.9	H	I
Globulin	2.8	g/dL		2.4		I
Albumin/Globulin	1.6			2.5	H	I
Bilirubin, Total	0.5	mg/dL		0.7		I
Alkaline Phosphatase	57	U/L		64		I
LDH	124	U/L		197		I
SGOT (AST)	15	U/L		30		I
SGPT (ALT)	23	U/L		45	H	I
Gamma GT (GGT)	38	U/L		15		I
Iron, Total	48	L mcg/dL		179	H	I
Pyrroles, Urine	8	ug/dL		25	H	19
CRP-hs	31.67	H mg/L		1.2		2.0 H

C-Reactive Protein(CRP) Cardiovascular Risk Factors
 <0.7 mg/L Lowest Risk
 0.7-1.1 mg/L Low Risk
 1.2-1.9 mg/L Moderate Risk
 2.0-3.8 mg/L High Risk
 >3.8 mg/L Highest Risk

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Homocysteine	5.6	umol/L		4.6 L	6.0
Hemoglobin A1c	6.1 H	%		5.5	6.6 H
Hemoglobin A1c degree of glucose control for diabetics: >8.0% Action Suggested 4.5-7.0% Goal of diabetic therapy					
Estimated Ave Glucose	128 H	mg/dL		111	143 H

I=PERFORMED AT: Quest Diagnostics
10101 Renner Blvd
Lenexa, KS 66219-9752

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1447 York Court
Burlington, NC 27215

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