















Bio-Center Laboratory

CLIA#: 17D0648333

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 Laboratory Director : Charles Hinshaw, M.D.

Medicare #: 008052

■ Needs Improvement
 ■ Within Acceptable Range (+ 2 Standard Deviations)
 ■ Beyond the Expected Range
 * Below Detectable Limits

	Result	Expected Range	Units
<u>VITAMINS/NUTRIENTS</u>			
Coenzyme Q10 	0.8	0.3 - 1.5	ug/mL
<u>B ASSESSMENT PROFILE</u>			
Vit. B5-Pantothenic Acid 	19.5	10.0 - 36.0	mg/dL
<u>MINERALS</u>			
Calcium, RBC 	0.46	0.15 - 0.70	mg/dL
Magnesium, RBC 	5.1	4.0 - 6.4	mg/dL
Mg/Ca, RBC Ratio 	11.1	7 - 39	Ratio
Copper, RBC 	59	46 - 79	ug/dL
Manganese, RBC 	1.6	1.1 - 1.7	ug/dL
Selenium, RBC 	123	75 - 240	ug/L
Zinc, RBC 	9.9	8.6 - 15.8	ug/mL
<u>AMINO ACIDS</u>			
Aspartic Acid 	1.1	0.1 - 1.3	umol/dL
Glutamic Acid 	7.6	1.6 - 12.0	umol/dL
Hydroxyproline 	1.2	0.3 - 2.3	umol/dL
Serine 	8.5	7.0 - 17.0	umol/dL
Asparagine 	6.2	4.0 - 11.0	umol/dL
Glycine 	17.8	15.0 - 39.0	umol/dL
Glutamine 	65	48 - 84	umol/dL
Taurine 	4.1	2.8 - 6.8	umol/dL

Name : Barnett, Jonathan D

Account #: 17070

Chart Number: 018283

DOB : 06 / 30 / 1956

Age : 56 Yrs

Sex : Male

Source : RON HUNNINGHAKE, M.D.

Specimen Collected: 02 / 14 / 2013 10 : 00 AM

Fasting Since :

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Report Date : 03 / 01 / 13

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		Result	Expected Range	Units
HISTIDINE		5.4	2.4 - 10.0	umol/dL
Citrulline		4.0	1.4 - 5.0	umol/dL
THREONINE		9.8	5.5 - 14.1	umol/dL
Alanine		53.8	25.0 - 60.0	umol/dL
ARGININE		5.6	2 - 6.0	umol/dL
Proline		27.6	10.0 - 32.0	umol/dL
a-Amino-N-butyric Acid		3.6	0.8 - 3.6	umol/dL
Tyrosine		9.4	4.4 - 10.0	umol/dL
VALINE		32.6	18.0 - 34.0	umol/dL
METHIONINE		4.3	1.7 - 4.5	umol/dL
Cystine		0.9	0.8 - 6.0	umol/dL
ISOLEUCINE		7.5	4.0 - 10.0	umol/dL
LEUCINE		17.9	9.5 - 19.5	umol/dL
PHENYLALANINE		5.2	3.5 - 8.4	umol/dL
TRYPTOPHAN		0.7	0.7 - 2.0	umol/dL
Ornithine		3.6	3.5 - 9.8	umol/dL
LYSINE		16.6	11.0 - 25.0	umol/dL

THYROID TESTING

Free T3		2.91	1.71 - 3.71	pg/mL
TSH		0.2	0.4 - 2.8	uIU/mL
Free T4		0.68	0.71 - 1.85	ng/dL

Organic Acids

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SPECIAL ASSAYS

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		Result	Expected Range	Units
CRP-hs		1.8	0.0 - 1.9	mg/L
	C-Reactive Protein (CRP) 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		

CDSA

[5]

Comprehensive Digestive Stool Analysis

[5]

Performed by Great Smokies Diagnostic Lab., 63 Zillicoa Street, Asheville, NC 28801

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