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**General Comments and Additional Information**

Test(s) 070141-Vitamin E(Alpha Tocopherol); 070142-Vitamin E(Gamma Tocopherol); 001806-Vitamin C; 004656-Vitamin B6; 120252-Coenzyme Q10, Total; 121188-Vit. B1, Whole Blood was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration.

**Fasting:** No

**Total Vol:**

**Source:**

Result Name	Flag	Result	Range/Units	Status	Lab
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**144057 Vitamin A, E, Beta Carotene**

<b>Carotene, Beta</b>	<b>Above High Normal</b>	<b>208</b>	<b>3-91 / ug/dL</b>	<b>Final</b>	<b>01</b>
Vitamin A		34.1	20.1-62.0 / ug/dL	Final	01

Reference intervals for vitamin A determined from LabCorp internal studies. Individuals with vitamin A less than 20 ug/dL are considered vitamin A deficient and those with serum concentrations less than 10 ug/dL are considered severely deficient.

This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

Vitamin E(Alpha Tocopherol)		9.7	7.0-25.1 / mg/L	Final	01
Vitamin E(Gamma Tocopherol)		0.7	0.5-5.5 / mg/L	Final	01

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Reference intervals for alpha and gamma-tocopherol determined from National Health and Nutrition Examination Survey, 2005-2006. Individuals with alpha-tocopherol levels less than 5.0 mg/L are considered vitamin E deficient.

**005009 CBC With Differential/Platelet**

WBC		4.2	3.4-10.8 / x10E3/uL	Final	02
RBC		4.85	4.14-5.80 / x10E6/uL	Final	02
Hemoglobin		15.5	13.0-17.7 / g/dL	Final	02
Hematocrit		46.1	37.5-51.0 / %	Final	02
MCV		95	79-97 / fL	Final	02
MCH		32.0	26.6-33.0 / pg	Final	02
MCHC		33.6	31.5-35.7 / g/dL	Final	02
RDW		12.8	11.6-15.4 / %	Final	02
Platelets		174	150-450 / x10E3/uL	Final	02
Neutrophils		55	Not Estab. / %	Final	02
Lymphs		32	Not Estab. / %	Final	02
Monocytes		11	Not Estab. / %	Final	02
Eos		1	Not Estab. / %	Final	02
Basos		1	Not Estab. / %	Final	02
Neutrophils (Absolute)		2.3	1.4-7.0 / x10E3/uL	Final	02
Lymphs (Absolute)		1.3	0.7-3.1 / x10E3/uL	Final	02
Monocytes(Absolute)		0.5	0.1-0.9 / x10E3/uL	Final	02
Eos (Absolute)		0.1	0.0-0.4 / x10E3/uL	Final	02

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Baso (Absolute)		0.0	0.0-0.2 / x10E3/uL	Final	02
Immature Granulocytes		0	Not Estab. / %	Final	02
Immature Grans (Abs)		0.0	0.0-0.1 / x10E3/uL	Final	02

**322000 Comp. Metabolic Panel (14)**

<b>Glucose</b>	<b>Below Low Normal</b>	<b>69</b>	<b>70-99 / mg/dL</b>	<b>Final</b>	<b>02</b>
BUN		16	6-24 / mg/dL	Final	02
Creatinine		0.96	0.76-1.27 / mg/dL	Final	02
eGFR		93	>59 / mL/min/1.73	Final	02
BUN/Creatinine Ratio		17	9-20	Final	02
Sodium		142	134-144 / mmol/L	Final	02
Potassium		4.3	3.5-5.2 / mmol/L	Final	02
Chloride		103	96-106 / mmol/L	Final	02
Carbon Dioxide, Total		25	20-29 / mmol/L	Final	02
Calcium		9.2	8.7-10.2 / mg/dL	Final	02
Protein, Total		6.2	6.0-8.5 / g/dL	Final	02
Albumin		4.2	3.8-4.9 / g/dL	Final	02
Globulin, Total		2.0	1.5-4.5 / g/dL	Final	02
A/G Ratio		2.1	1.2-2.2	Final	02
<b>Bilirubin, Total</b>	<b>Above High Normal</b>	<b>1.3</b>	<b>0.0-1.2 / mg/dL</b>	<b>Final</b>	<b>02</b>
Alkaline Phosphatase		63	44-121 / IU/L	Final	02
AST (SGOT)		16	0-40 / IU/L	Final	02
ALT (SGPT)		13	0-44 / IU/L	Final	02

**003772 Urinalysis, Complete**

Specific Gravity		1.016	1.005-1.030	Final	02
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pH		6.5	5.0-7.5	Final	02
Urine-Color		Yellow	Yellow	Final	02
Appearance		Clear	Clear	Final	02
WBC Esterase		Negative	Negative	Final	02
Protein		Negative	Negative/Trace	Final	02
Glucose		Negative	Negative	Final	02
Ketones		Negative	Negative	Final	02
Occult Blood		Negative	Negative	Final	02
Bilirubin		Negative	Negative	Final	02
Urobilinogen,Semi-Qn		0.2	0.2-1.0 / mg/dL	Final	02
Nitrite, Urine		Negative	Negative	Final	02
Microscopic Examination				Final	02
Microscopic follows if indicated.					
Microscopic Examination		See below:		Final	02
Microscopic was indicated and was performed.					
<b>333328 Microscopic Examination</b>					
WBC		None seen	0 - 5 /hpf	Final	02
RBC		None seen	0 - 2 /hpf	Final	02
Epithelial Cells (non renal)		None seen	0 - 10 /hpf	Final	02
Casts		None seen	None seen / /hpf	Final	02
Bacteria		None seen	None seen/Few	Final	02
<b>221010 Lipid Panel w/ Chol/HDL Ratio</b>					
Cholesterol, Total		173	100-199 / mg/dL	Final	02

# Labcorp

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Triglycerides		72	0-149 / mg/dL	Final	02
HDL Cholesterol		56	>39 / mg/dL	Final	02
VLDL Cholesterol Cal		14	5-40 / mg/dL	Final	02
LDL Chol Calc (NIH)	Above High Normal	103	0-99 / mg/dL	Final	02
T. Chol/HDL Ratio		3.1	0.0-5.0 / ratio	Final	02

T. Chol/HDL Ratio

	Men	Women
1/2 Avg. Risk	3.4	3.3
Avg. Risk	5.0	4.4
2X Avg. Risk	9.6	7.1
3X Avg. Risk	23.4	11.0

**001321 Iron and TIBC**

Iron Bind.Cap.(TIBC)	Below Low Normal	223	250-450 / ug/dL	Final	02
UIBC	Below Low Normal	65	111-343 / ug/dL	Final	02
Iron		151	38-169 / ug/dL	Final	02
Iron Saturation	Above High Normal	71	15-55 / %	Final	02

**001805 Vitamin C**

Vitamin C		0.9	0.4-2.0 / mg/dL	Final	01
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Vitamin C deficiency is generally defined as plasma or serum concentrations less than 0.2 mg/dL and levels between 0.2 and 0.4 mg/dL are considered low.

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**002014 Folate (Folic Acid), Serum**

Folate (Folic Acid), Serum		>20.0	>3.0 / ng/mL	Final	02
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A serum folate concentration of less than 3.1 ng/mL is considered to represent clinical deficiency.

**004655 Vitamin B6, Plasma**

Vitamin B6		29.7	3.4-65.2 / ug/L	Final	01
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Deficiency: <3.4  
 Marginal: 3.4 - 5.1  
 Adequate: >5.1

**081950 Vitamin D, 25-Hydroxy**

Vitamin D, 25-Hydroxy		41.0	30.0-100.0 / ng/mL	Final	02
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Vitamin D deficiency has been defined by the Institute of Medicine and an Endocrine Society practice guideline as a level of serum 25-OH vitamin D less than 20 ng/mL (1,2). The Endocrine Society went on to further define vitamin D insufficiency as a level between 21 and 29 ng/mL (2).

- IOM (Institute of Medicine). 2010. Dietary reference intakes for calcium and D. Washington DC: The National Academies Press.

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2. Holick MF, Binkley NC, Bischoff-Ferrari HA, et al.  
 Evaluation, treatment, and prevention of vitamin D  
 deficiency: an Endocrine Society clinical practice  
 guideline. JCEM. 2011 Jul; 96(7):1911-30.

**120251 Coenzyme Q10, Total**

Coenzyme Q10, Total	0.66	0.37-2.20 / ug/mL	Final	01
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**121186 Vitamin B1 (Thiamine), Blood**

Vit. B1, Whole Blood	110.3	66.5-200.0 / nmol/L	Final	01
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**001503 Vitamin B12**

Vitamin B12	1102	232-1245 / pg/mL	Final	02
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**016931 Prealbumin**

Prealbumin	23	10-36 / mg/dL	Final	02
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**Performing Lab**

01 - Labcorp Burlington, 1447 York Court, Burlington, NC 27215-3361, (800) 762-4344, Nagendra, Sanjai MD

02 - LabCorp Houston, 7207 North Gessner, Houston, TX 77040-3143, (713) 856-8288, Eskue, Kyle L MD

For Inquiries, the physician may contact the performing lab.

END OF REPORT