



PATIENT: **Sample Report**

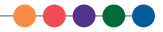
TEST REF: **###-##-####**

TEST NUMBER: #####  
PATIENT NUMBER: #####  
GENDER: Male  
AGE: 32  
DATE OF BIRTH: dd-mm-yyyy

COLLECTED: dd/mm/yyyy  
RECEIVED: dd/mm/yyyy  
TESTED: dd/mm/yyyy

PRACTITIONER: **Nordic Laboratories**  
ADDRESS:

**TEST NAME: Organix Basic (excl. Dysbiosis)**



**3304 Organix ® Basic Profile - Urine**

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

**Summary of Abnormal Findings**

Biomarkers	Findings	Metabolic Pathway
<b>Fatty Acid Metabolism</b>	No Abnormality Found	
<b>Carbohydrate Metabolism</b>		
L-Lactate	<b>H</b>	Glycolysis
<b>Energy Production Markers</b>		
Citrate	<b>L</b>	Citric acid cycle
Cis-Aconitate	<b>L</b>	Citric acid cycle
<b>B-Complex Vitamin Markers</b>	No Abnormality Found	
<b>Methylation Cofactor Metabolism</b>	No Abnormality Found	
<b>Neurotransmitter Metabolism Markers</b>		
Homovanillate	<b>L</b>	Dopamine metabolism
<b>Detoxification Indicators</b>	No Abnormality Found	

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Page 1 of 5

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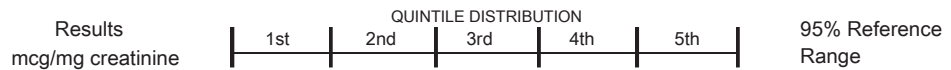
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*Methodology: LC/Tandem Mass Spectrometry, Colorimetric*

This report is not intended for the diagnosis of neonatal inborn errors of metabolism.

Ranges: Ages 13 and over


**Nutrient Markers**
**Fatty Acid Metabolism**
*(Carnitine & B2)*

1. Adipate	1.9				6.2	<= 11.1
2. Suberate	0.9				2.1	<= 4.6
3. Ethylmalonate	1.4				3.6	<= 6.3

**Carbohydrate Metabolism**
*(B1, B3, Cr, Lipoic Acid, CoQ10)*

4. Pyruvate	3.1				3.9	<= 6.4
5. L-Lactate	21.0	H			8.5	0.6 - 16.4
6. β-Hydroxybutyrate	<DL				2.1	<= 9.9

**Energy Production (Citric Acid Cycle)**
*(B Comp., CoQ10, Amino Acids, Mg)*

7. Citrate	27	L			601	56 - 987
8. Cis-Aconitate	15	L			51	18 - 78
9. Isocitrate	41				98	39 - 143
10. α-Ketoglutarate	2.0				19.0	<= 35.0
11. Succinate	2.5				11.6	<= 20.9
12. Fumarate	<DL				0.59	<= 1.35
13. Malate	0.4				1.4	<= 3.1
14. Hydroxymethylglutarate	1.5				3.6	<= 5.1



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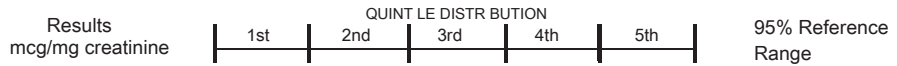
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**Nutrient Markers**

**B-Complex Vitamin Markers**

(B1, B2, B3, B5, B6, Biotin)

Item	Results	Quintile Distribution	95% Reference Range
15. α-Ketoisovalerate	<DL	0.25	<= 0.49
16. α-Ketoisocaproate	<DL	0.34	<= 0.52
17. α-Keto-β-Methylvalerate	<DL	0.38	<= 1.10
18. Xanthurenate	0.27	0.34	<= 0.46
19. β-Hydroxyisovalerate	3.9	7.6	<= 11.5

**Methylation Cofactor Markers**

(B12, Folate)

20. Methylmalonate	1.0	1.7	<= 2.3
21. Formiminoglutamate	0.9	1.2	<= 2.2

**Cell Regulation Markers**

**Neurotransmitter Metabolism Markers**

(Tyrosine, Tryptophan, B6, Antioxidants)

22. Vanilmandelate	1.4	1.6 - 3.9	1.2 - 5.3
23. Homovanillate	1.3	1.9 - 5.7	1.4 - 7.6
24. 5-Hydroxyindoleacetate	3.6	2.1 - 5.6	1.6 - 9.8
25. Kynurenate	0.9	1.0	<= 1.5
26. Quinolinate	2.5	4.0	<= 5.8
27. Picolinate	6.1	8.0	2.8 - 13.5

**Toxicants and Detoxification**

**Detoxification Indicators**

(Arg, NAC, Met, Mg, Antioxidants)

28. 2-Methylhippurate	0.013	0.084	<= 0.192
29. Orotate	0.18	0.69	<= 1.01
30. Glucarate	2.9	6.3	<= 10.7
31. α-Hydroxybutyrate	<DL	0.3	<= 0.9
32. Pyroglutamate	43	59	28 - 88

Creatinine = 211 mg/dL

<DL = less than detection limit

>UL = greater than upper linearity limit

NR = Not Reportable

This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared by the U.S. Food and Drug Administration.



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### Additional Considerations

This page is provided as a starting point that may guide decisions about medical treatment based on the test results. It is derived only from the laboratory results included in this report. Final recommendations should be based on consideration of the patient's medical history and current clinical condition.

Nutrient	Nutrient Need
Vitamin B-1 (Thiamin)	Low
Vitamin B-2 (Riboflavin)	Low
Vitamin B-3 (Niacin)	Low
Vitamin B-5 (Pantothenic Acid)	Low
Coenzyme Q10	Low
Lipoic Acid	Low
Tyrosine	Low

Various conditionally essential nutrients and other potentially beneficial interventions appear in this section only if relevant abnormalities are present.

Amino acids listed on this page result from functional markers of individual amino acid insufficiency and do not reflect amino acids measured in plasma.

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Page 4 of 5

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**General Supplement Ranges**

**These supplement ranges are not adjusted for age, sex, or gender.**

Nutrient supplementation is at the discretion of the treating clinician. The supplement dose ranges provided below are meant for educational purposes only. These dosage ranges relate to findings commonly found on Genova's nutritional panels and do not apply to specific disease conditions where different dosages may be warranted.

Nutrient	Adult Dosage Range*
Vitamin C	0-1000 mg
Vitamin D	0-2000 IU
Vitamin E (mixed tocopherols)	0-400 IU
Vitamin B-1 (Thiamin)	0-50 mg
Vitamin B-2 (Riboflavin)	0-50 mg
Vitamin B-3 (Niacin)	0-50 mg
Vitamin B-5 (Pantothenic Acid)	0-100 mg
Vitamin B-6 (Pyridoxine)	0-50 mg
Vitamin B-12 (Cobalamin)	0-1000 mcg
Folic Acid	0-1000 mcg
Biotin	0-400 mcg
Magnesium	0-400 mg
Selenium	0-200 mcg
Carnitine	0-1000 mg
Coenzyme Q10	0-200 mg
Lipoic Acid	0-200 mg
N-Acetylcysteine	0-1000 mg
L-Arginine	0-1000 mg
Glycine	0-3000 mg

\*Dosage ranges are adapted from the textbook *Nutritional Medicine* by Alan Gaby, M.D.<sup>1</sup>

1. Gaby AR. *Nutritional Medicine*. Vol 265: Fritz Perlberg Publishing; 2011.