



PATIENT: **Sample Report**

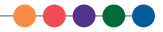
TEST REF: **###-##-####**

TEST NUMBER: #####  
PATIENT NUMBER: #####  
GENDER: Male  
AGE: 43  
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 Comprehensive**



**3301 Organix® Comprehensive Profile - Urine**

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

**Summary of Abnormal Findings**

Biomarkers	Findings	Metabolic Pathway
<b>Fatty Acid Metabolism</b>		
Suberate	<b>H</b>	Fatty acid oxidation
<b>Carbohydrate Metabolism</b>	No Abnormality Found	
<b>Energy Production Markers</b>	No Abnormality Found	
<b>B-Complex Vitamin Markers</b>	No Abnormality Found	
<b>Methylation Cofactor Metabolism</b>	No Abnormality Found	
<b>Neurotransmitter Metabolism Markers</b>		
Homovanillate	<b>H</b>	Dopamine metabolism
5-Hydroxyindoleacetate	<b>H</b>	Serotonin metabolism
Kynurenate	<b>H</b>	Tryptophan pathway
<b>Oxidative Damage and Antioxidant Markers</b>		
p-Hydroxyphenyllactate	<b>H</b>	Gut bacterial metabolism
<b>Detoxification Indicators</b>	No Abnormality Found	
<b>Bacterial - General</b>		
p-Hydroxybenzoate	<b>H</b>	Gut bacterial metabolism
p-Hydroxyphenylacetate	<b>H</b>	Gut bacterial metabolism
<b>L. acidophilus/General Bacteria</b>	No Abnormality Found	
<b>Clostridial Species</b>	No Abnormality Found	
<b>Yeast/Fungal</b>	No Abnormality Found	

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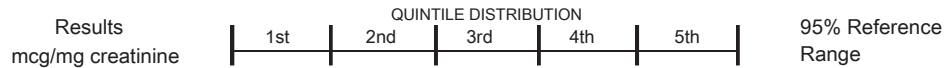
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**3301 Organix® Comprehensive Profile - Urine**
*Methodology: LC/Tandem Mass Spectrometry, Colorimetric*

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)*

Item	Results	Quintile	95% Reference Range
1. Adipate	2.6	1st	<= 11.1
2. Suberate	5.1	5th	<= 4.6
3. Ethylmalonate	2.0	2nd	<= 6.3

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

Item	Results	Quintile	95% Reference Range
4. Pyruvate	3.5	4th	<= 6.4
5. L-Lactate	12.4	5th	0.6 - 16.4
6. β-Hydroxybutyrate	<DL	1st	<= 9.9

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

Item	Results	Quintile	95% Reference Range
7. Citrate	572	4th	56 - 987
8. Cis-Aconitate	21	1st	18 - 78
9. Isocitrate	53	1st	39 - 143
10. α-Ketoglutarate	<DL	1st	<= 35.0
11. Succinate	11.5	4th	<= 20.9
12. Fumarate	<DL	1st	<= 1.35
13. Malate	<DL	1st	<= 3.1
14. Hydroxymethylglutarate	4.9	5th	<= 5.1

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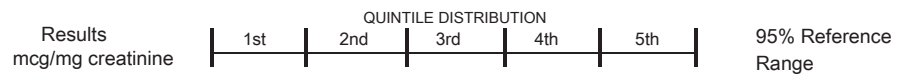
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**Nutrient Markers**

**B-Complex Vitamin Markers**

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

Item	Result	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	<DL	0.34	<= 0.46
19. β-Hydroxyisovalerate	4.8	7.6	<= 11.5

**Methylation Cofactor Markers**

(B12, Folate)

20. Methylmalonate	0.8	1.7	<= 2.3
21. Formiminoglutamate	0.6	1.2	<= 2.2

**Cell Regulation Markers**

**Neurotransmitter Metabolism Markers**

(Tyrosine, Tryptophan, B6, Antioxidants)

22. Vanilmandelate	3.0	1.6 - 3.9	1.2 - 5.3
23. Homovanillate	9.6 <b>H</b>	1.9 - 5.7	1.4 - 7.6
24. 5-Hydroxyindoleacetate	9.9 <b>H</b>	2.1 - 5.6	1.6 - 9.8
25. Kynurenate	2.8 <b>H</b>	1.0 - 4.0	<= 1.5
26. Quinolinate	0.2	4.0 - 8.0	<= 5.8
27. Picolinate	3.0	8.0 - 13.5	2.8 - 13.5

**Oxidative Damage and Antioxidant Markers**

(Vitamin C and Other Antioxidants)

28. p-Hydroxyphenyllactate	0.76 <b>H</b>	0.39 - 5.3	<= 0.66
29. 8-Hydroxy-2-deoxyguanosine	4.5	5.3 - 7.6	<= 7.6

(Units for 8-hydroxy-2-deoxyguanosine are ng/mg creatinine)



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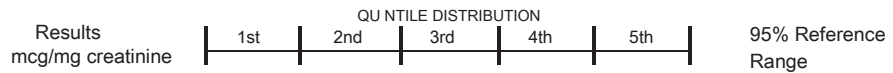
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**Toxicants and Detoxification**

**Detoxification Indicators**

(Arg, NAC, Met, Mg, Antioxidants)

Item	Results	1st	2nd	3rd	4th	5th	95% Reference Range
30. 2-Methylhippurate	0.041					0.084	<= 0.192
31. Orotate	0.81					0.69	<= 1.01
32. Glucarate	9.7					6.3	<= 10.7
33. α-Hydroxybutyrate	<DL					0.3	<= 0.9
34. Pyroglutamate	49					59	28 - 88
35. Sulfate	1,345	958				2,347	690 - 2,988

**Compounds of Bacterial or Yeast/Fungal Origin**

**Bacterial - General**

36. Benzoate	<DL					0.6	<= 9.3
37. Hippurate	1,022					548	<= 1,070
38. Phenylacetate	0.17					0.11	<= 0.18
39. Phenylpropionate	<DL						<= 0.06
40. p-Hydroxybenzoate	1.9	<b>H</b>				1.1	<= 1.8
41. p-Hydroxyphenylacetate	40	<b>H</b>				19	<= 34
42. Indican	57					64	<= 90
43. Tricarballic acid	<DL					0.73	<= 1.41

**L. acidophilus / General Bacterial**

44. D-Lactate	0.2					2.0	<= 4.1
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**Clostridial Species**

45. 3,4-Dihydroxyphenylpropionate	<DL						<= 0.05
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**Yeast / Fungal**

46. D-Arabinitol	29					36	<= 73
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Creatinine = 53 mg/dL

<DL = less than detection limit  
 >UL = greater than upper linearity limit

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.

Vitamin C	High
Vitamin E (mixed tocopherols)	Moderate
Vitamin B-6 (Pyridoxine)	Low
Carnitine	Moderate
Need for other antioxidants	Moderate

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.

**Nordic Laboratories Aps**

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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.