

PATIENT: **Sample Report**TEST REF: **TST-XXXXXX**

TEST NUMBER: #####

COLLECTED: mm/dd/yyyy

PATIENT NUMBER: #####

RECEIVED: mm/dd/yyyy

GENDER: Female

TESTED: mm/dd/yyyy

AGE: 38

DATE OF BIRTH: mm/dd/yyyy

PRACTITIONER: **Nordic Laboratories****TEST NAME: Organix Comprehensive****0091 Organix® Comprehensive Profile - Urine**

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

Summary of Abnormal Findings

	Findings	Intervention Options	Common Metabolic Association
Fatty Acid Metabolism			
Ethylmalonate	↑	Carnitine, B2	Fatty acid oxidation
Carbohydrate Metabolism			
L-Lactate	↑	CoQ10, Lipoic Acid, B1, B2, B3, B5	Glucose oxidation
Energy Production Markers			
Citrate	↑	Arginine	Renal ammonia loading
Cis-Aconitate	↑	Arginine	Renal ammonia loading
Isocitrate	↑	Arginine	Renal ammonia loading
Succinate	↑	CoQ10	ATP production
B-Complex Vitamin Markers No Abnormality Found			
Methylation Cofactor Markers No Abnormality Found			
Neurotransmitter Metabolism Markers			
Vanilmandelate	↓	Tyrosine, Phenylalanine	Epi- & Norepinephrine turnover inhibition
Quinolate	↑	Magnesium, Immune support	Receptor agonist
Picolinate	↑	Add n-3 PUFA, limit protein intake	Inflammatory cytokine stimulation
Oxidative Damage and Antioxidant Markers			
8-Hydroxy-2-deoxyguanosine	↑	Vitamin C, Vitamin E	DNA oxidation product
Detoxification Indicators No Abnormality Found			

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Commentary

Bacterial - General

Benzoate	↑	Glycine	Hepatic Phase II conjugation
Phenylacetate	↑	Probiotics	Intestinal Bacterial Overgrowth
p-Hydroxybenzoate	↑	Probiotics	Intestinal Bacterial Overgrowth

L. acidophilus / general bacteria

No Abnormality Found

Clostridial Species

No Abnormality Found

Yeast/Fungal

D-Arabinitol	↑	Antifungals	Yeast overgrowth
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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

Results mcg/mg creatinine | 1st | 2nd | 3rd | 4th | 5th | 95% Reference Range

Nutrient Markers

Fatty Acid Metabolism

(Carnitine & B2)

Item	Results	Quintile Distribution	95% Reference Range
1. Adipate	4.1	6.2	<= 11.1
2. Suberate	1.4	2.1	<= 4.6
3. Ethylmalonate	5.4	3.6	<= 6.3

Carbohydrate Metabolism

(B1, B3, Cr, Lipoic Acid, CoQ10)

Item	Results	Quintile Distribution	95% Reference Range
4. Pyruvate	<DL	3.9	<= 6.4
5. L-Lactate	20.9 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)

Item	Results	Quintile Distribution	95% Reference Range
7. Citrate	729	601	56 - 987
8. Cis-Aconitate	58	51	18 - 78
9. Isocitrate	111	98	39 - 143
10. α-Ketoglutarate	<DL	19.0	<= 35.0
11. Succinate	13.8	11.6	<= 20.9
12. Fumarate	<DL	0.59	<= 1.35
13. Malate	<DL	1.4	<= 3.1
14. Hydroxymethylglutarate	3.2	3.6	<= 5.1

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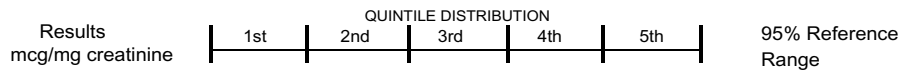
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Nutrient Markers

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	0.18	0.34	<= 0.46
19. β-Hydroxyisovalerate	4.7	7.6	<= 11.5

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	1.3	1.7	<= 2.3
21. Formiminoglutamate	1.1	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	4.8	1.9 - 5.7	1.4 - 7.6
24. 5-Hydroxyindoleacetate	4.6	2.1 - 5.6	1.6 - 9.8
25. Kynurenate	0.6	1.0	<= 1.5
26. Quinolate	6.0 H	4.0	<= 5.8
27. Picolinate	8.8	8.0	2.8 - 13.5

Oxidative Damage and Antioxidant Markers

(Vitamin C and Other Antioxidants)

28. p-Hydroxyphenyllactate	0.30	0.39	<= 0.66
29. 8-Hydroxy-2-deoxyguanosine	5.8	5.3	<= 7.6

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

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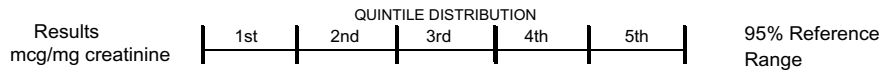
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Toxicants and Detoxification

Detoxification Indicators

(Arg, NAC, Met, Mg, Antioxidants)

Item	Results	Quintile Distribution	95% Reference Range
30. 2-Methylhippurate	0.029	0.084	<= 0.192
31. Orotate	<DL	0.69	<= 1.01
32. Glucarate	5.0	6.3	<= 10.7
33. α-Hydroxybutyrate	<DL	0.3	<= 0.9
34. Pyroglutamate	59	59	28 - 88
35. Sulfate	1,985	958 - 2,347	690 - 2,988

Compounds of Bacterial or Yeast/Fungal Origin

Bacterial - General

36. Benzoate	24.4	H	0.6	<= 9.3
37. Hippurate	261		548	<= 1,070
38. Phenylacetate	0.13		0.11	<= 0.18
39. Phenylpropionate	<DL			<= 0.06
40. p-Hydroxybenzoate	2.6	H	1.1	<= 1.8
41. p-Hydroxyphenylacetate	13		19	<= 34
42. Indican	26		64	<= 90
43. Tricarballate	<DL		0.73	<= 1.41

L. acidophilus / General Bacterial

44. D-Lactate	<DL		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	156	H	36	<= 73
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Creatinine = 38 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 or approved by the U.S. Food and Drug Administration.

Reference ranges have been updated for D-Lactate and L-Lactate.

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Supplement Recommendation Summary

With knowledge of a patient's full medical history and concerns, the Organix Comprehensive Profile laboratory results may be used to help healthcare professionals create an individually optimized nutritional support program. Based strictly on the results from this test, the summary table below shows estimates of nutrient doses that may help to normalize nutrient-dependent metabolic functions.

Customized Vitamin and Mineral Formulation

Nutrients listed in this section are normally contained in a multi-vitamin preparation. "Base" amounts may be used to ensure health even when no abnormalities are found.

Daily Amounts

Nutrient	Base	Units Added
Vitamin A*	2,500 IU	
B-Carotene*	5,500 IU	
Vitamin C	250.0 mg	2,000 mg
Vitamin D*	400 IU	
Vitamin E	100 IU	400 IU
Vitamin K*	100 mcg	
Thiamin (B1)	5.0 mg	5.0 mg
Riboflavin (B2)	5.0 mg	10.0 mg
Niacin (B3)	25.0 mg	20.0 mg
Pyridoxine (B6)	15.0 mg	
Folic Acid (or 5-Methyl-THF)	400 mcg	
Vitamin B12	50.0 mcg	
Biotin	100 mcg	
Pantothenic Acid (B5)	25.0 mg	25.0 mg
Calcium Citrate	500 mg	
Iodine*	75.0 mcg	
Magnesium	250.0 mg	200 mg
Zinc*	15.0 mg	
Selenium	100 mcg	200.0 mcg
Copper	1.0 mg	
Manganese*	5.0 mg	
Chromium	200 mcg	
Molybdenum*	25.0 mcg	
Boron*	1.0 mg	

* Nutrients with an asterisk are not modified based on the Organix test results.

MM03

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Other items indicated for individual supplementation

Various conditionally essential nutrients and other potentially beneficial interventions appear in this section only if relevant abnormalities are present. These ingredients are not included in the customized vitamin formula on the previous page.

Nutrient	Amount
Antifungals	As needed
Arginine	1,000 mg
Carnitine	400 mg
Coenzyme Q10	60 mg
Glycine	3,000 mg
Lipoic Acid	100 mg
Need for other antioxidants	Moderate
Tyrosine	500 mg
Potential to Benefit from Probiotics	Medium

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