

Accession #: **A1112080002**
Reference #:
Patient:
Date of Birth: 02/05/2000
Age: 11
Sex: Male
Reprinted: 11/14/2012
Comment:

Date Collected: 12/07/2011
Date Received: 12/08/2011
Date of Report: 12/08/2011
Telephone: (770) 446-4583
Fax: (770) 441-2237

Ordering Physician:

John Doe, MD
1234 Main St.
Anywhere, GA 30096



0091 Organix™ Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

Organix Interpretation

Organix Interpretive Guide is downloadable at: www.metamatrix.com/files/test-menu/interpretive-guides/Organix-IG.pdf

Accession #: **A1112080002**
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Patient: **Sample Report**
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Summary of Abnormal Findings

	<u>Findings</u>	<u>Intervention Options</u>	<u>Common Metabolic Association</u>
Fatty Acid Metabolism			
Suberate	Very High	Carnitine, B2	Fatty acid oxidation
Carbohydrate Metabolism			
No Abnormality Found			
Energy Production Markers			
Isocitrate	Very Low	Free-form amino acids	Amino Acid insufficiency
Fumarate	High	CoQ10	ATP production
B-Complex Vitamin Markers			
Xanthurenate	Very High	B6	Impaired Tryptophan metabolism
Methylation Cofactor Markers			
No Abnormality Found			
Neurotransmitter Metabolism Markers			
Vanilmandelate	High	Evaluate stress issues	Epi- & Norepinephrine turnover stimulation
5-Hydroxyindoleacetate	Very Low	5-HTP	Serotonin turnover inhibition
Kynurenate	High	B6	Receptor antagonist
Picolinate	Very Low	Limit omega-3 PUFA, add protein	Suppressed inflammatory responses
Oxidative Damage and Antioxidant Markers			
No Abnormality Found			
Detoxification Indicators			
No Abnormality Found			
Bacterial - General			
Hippurate	High	Glycine	Hepatic Phase II conjugation
p-Hydroxyphenylacetate	Very High	Probiotics	Intestinal Bacterial Overgrowth

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L. acidophilus / general bacteria

No Abnormality Found

Clostridial Species

No Abnormality Found

Yeast/Fungal

No Abnormality Found

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

Ranges are for ages 1 - 12

Results
mcg/mg creatinine

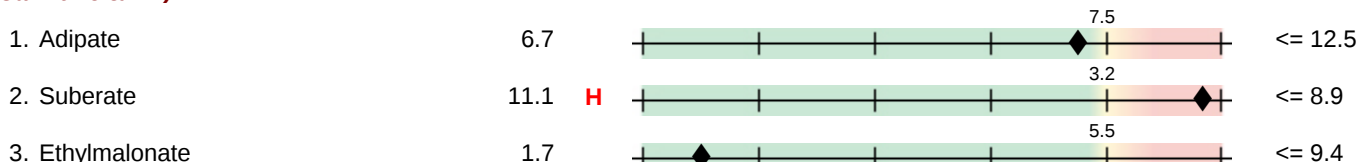


95% Reference Range

Nutrient Markers

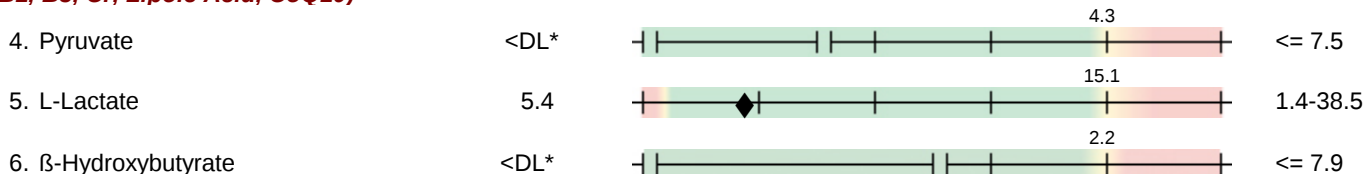
Fatty Acid Metabolism

(Carnitine & B2)



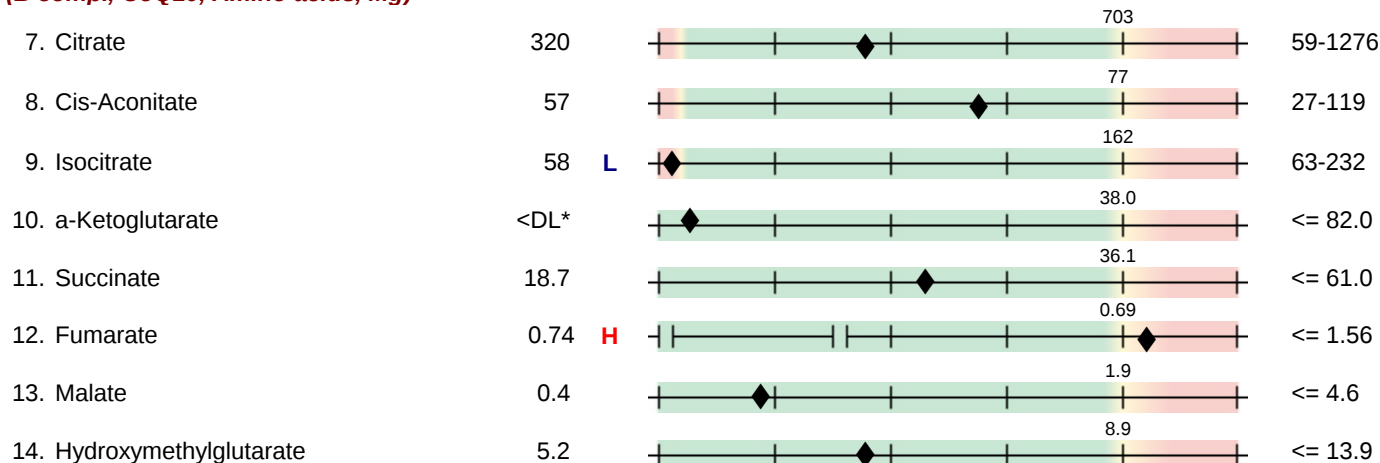
Carbohydrate Metabolism

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



Energy Production (Citric Acid Cycle)

(B comp., CoQ10, Amino acids, Mg)



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95% Reference Range

B-Complex Vitamin Markers

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

15. a-Ketoisovalerate	<DL*	0.29	<= 0.54
16. a-Ketoisocaproate	0.06	0.42	<= 0.63
17. a-Keto-β-methylvalerate	<DL*	0.42	<= 1.12
18. Xanthurenate	1.05 H	0.32	<= 0.46
19. β-Hydroxyisovalerate	2.8	13.5	<= 22.5

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	0.6	2.4	<= 3.3
21. Formiminoglutamate	0.1	1.9	<= 3.2

Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, antioxidants)

22. Vanilmandelate	6.9 H	2.9	6.4	2.0-8.2
23. Homovanillate	9.1	3.3	11.3	2.4-16.7
24. 5-Hydroxyindoleacetate	1.9 L	3.7	11.9	2.6-22.2
25. Kynurenate	2.1 H	1.4		<= 2.3
26. Quinolinatate	1.6	8.0		<= 12.3
27. Picolinate	3.2 L	16.3		4.8-28.7

Oxidative Damage and Antioxidant Markers

(Vitamin C and other antioxidants)

28. p-Hydroxyphenyllactate	<DL*	0.27	<= 0.67
29. 8-Hydroxy-2-deoxyguanosine*	3.1	5.9	<= 8.7

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

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95% Reference Range

Toxicants and Detoxification

Detoxification Indicators

(Arg, NAC, Met, Mg, antioxidants)

30. 2-Methylhippurate	0.099		<= 0.283
31. Orotate	0.10		<= 1.59
32. Glucarate	3.3		<= 14.8
33. a-Hydroxybutyrate	0.3		<= 0.8
34. Pyroglutamate	47		34-154
35. Sulfate	2197		784-4494

Compounds of Bacterial or Yeast/Fungal Origin

Bacterial - general

36. Benzoate	<DL*		<= 33.6
37. Hippurate	1252 H		<= 1271
38. Phenylacetate	<DL*		<= 0.80
39. Phenylpropionate	<DL*		<= 0.06
40. p-Hydroxybenzoate	0.1		<= 4.0
41. p-Hydroxyphenylacetate	>200 H		<= 48
42. Indican	26		<= 99
43. Tricarballic acid	0.55		<= 2.00

L. acidophilus / general bacterial

44. D-Lactate	0.6		<= 5.6
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Clostridial species

45. 3,4-Dihydroxyphenylpropionate	<DL*		<= 0.12
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Yeast / Fungal

46. D-Arabinitol	35		<= 92
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Creatinine = 175 mg/dL

<DL = less than detection limit

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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.

The dosage recommendations are for children 6 to 12. Further adjustments for body weight may be needed.

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.

Customized preparations of the multi-vitamin/mineral formula shown below may be produced by compounding pharmacies.

Nutrient	Daily Amounts	
	Base	Units Added
Vitamin A*	1250 IU	
B-Carotene*	2750 IU	
Vitamin C	125 mg	1000 mg
Vitamin D*	200 IU	
Vitamin E	50 IU	200 IU
Vitamin K*	50 mcg	
Thiamin (B1)	2.5 mg	
Riboflavin (B2)	2.5 mg	
Niacin (B3)	12.5 mg	
Pyridoxine (B6)	7.5 mg	50 mg
Folic Acid (or 5-Methyl-THF)	200 mcg	
Vitamin B12	25 mcg	
Biotin	50 mcg	
Pantothenic Acid (B5)	12.5 mg	
Calcium citrate	250 mg	
Iodine*	37.5 mcg	
Magnesium	125 mg	
Zinc*	7.5 mg	
Selenium	50 mcg	25 mcg
Copper	0.5 mg	
Manganese*	2.5 mg	
Chromium	100 mcg	
Molybdenum*	12.5 mcg	
Boron*	0.5 mg	

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

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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.

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Nutrient	Amount
Potential to benefit from probiotics	Low
5-Hydroxytryptophan	100 mg
Carnitine	200 mg
Coenzyme Q10	30 mg
Need for other antioxidants	Moderate