

Test nr.

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## 0091 Organix® Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

### Summary of Abnormal Findings

	<u>Findings</u>	<u>Intervention Options</u>	<u>Common Metabolic Association</u>
<b>Fatty Acid Metabolism</b>			
Adipate	High	Carnitine, B2	Fatty acid oxidation
Suberate	High	Carnitine, B2	Fatty acid oxidation
Ethylmalonate	High	Carnitine, B2	Fatty acid oxidation
<b>Carbohydrate Metabolism</b>			
L-Lactate	High	CoQ10, Lipoic Acid, B1, B2, B3, B5	Glucose oxidation
<b>Energy Production Markers</b>			
Citrate	Very High	Arginine	Renal ammonia loading
Cis-Aconitate	High	Arginine	Renal ammonia loading
α-Ketoglutarate	High	CoQ10, Lipoic Acid, B1, B2, B3, B5	Citric acid cycle
Succinate	Very High	CoQ10	ATP production
Fumarate	Very High	CoQ10	ATP production
Malate	Very High	CoQ10	ATP production
Hydroxymethylglutarate	High	CoQ10	HMG-CoA reductase inhibition
<b>B-Complex Vitamin Markers</b>			
β-Hydroxyisovalerate	High	Biotin, B2	Impaired Isoleucine metabolism
<b>Methylation Cofactor Markers</b>			
No Abnormality Found			
<b>Neurotransmitter Metabolism Markers</b>			
Homovanillate	High	Evaluate stress issues	Dopamine turnover stimulation
Quinolate	High	Magnesium, Immune support	Receptor agonist
<b>Oxidative Damage and Antioxidant Markers</b>			
p-Hydroxyphenyllactate	Very High	Vitamin C, Vitamin E	Increased cell turn over

Testing performed by Metamatrix Inc. for Nordic Laboratories ApS.

Georgia Lab Lic Code #067-007  
CLIA ID# 11D0255349

New York Clinical Lab PFI #4578  
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Laboratory Director: Robert M David, PhD

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### Detoxification Indicators

Orotate	High	Arginine, Magnesium	Urea cycle overload (ammonia toxicity)
a-Hydroxybutyrate	Very High	N-acetylcysteine, other sulfur containing amino acids	Glutathione demand
Pyroglutamate	High	N-acetylcysteine, other sulfur containing amino acids	Glutathione wasting

### Bacterial - General

Benzoate	Very High	Glycine	Hepatic Phase II conjugation
Hippurate	Very High	Glycine	Hepatic Phase II conjugation
Phenylacetate	Very High	Probiotics	Intestinal Bacterial Overgrowth
p-Hydroxybenzoate	High	Probiotics	Intestinal Bacterial Overgrowth
Tricarballic acid	Very High	Probiotics	Intestinal Bacterial Overgrowth

### L. acidophilus / general bacteria

D-Lactate	High	Non D-lactate-forming Probiotics	Intestinal bacterial overgrowth (L. acidophilus)
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### Clostridial Species

No Abnormality Found

### Yeast/Fungal

D-Arabinitol	High	Antifungals	Yeast Overgrowth
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Ranges are for ages 1 - 12

Results  
mcg/mg creatinine

Quintile Ranking  
1st 2nd 3rd 4th 5th

95% Reference Range

### Nutrient Markers

#### Fatty Acid Metabolism

(Carnitine & B2)

Marker	Result	Quintile Ranking	95% Reference Range
1. Adipate	9.1 H	7.5	<= 12.5
2. Suberate	4.6 H	3.2	<= 8.9
3. Ethylmalonate	7.4 H	5.5	<= 9.4

#### Carbohydrate Metabolism

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

Marker	Result	Quintile Ranking	95% Reference Range
4. Pyruvate	<DL*	4.3	<= 7.5
5. L-Lactate	35.0 H	15.1	1.4-38.5
6. β-Hydroxybutyrate	<DL*	2.2	<= 7.9

#### Energy Production (Citric Acid Cycle)

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

Marker	Result	Quintile Ranking	95% Reference Range
7. Citrate	1552 H	703	59-1276
8. Cis-Aconitate	116 H	77	27-119
9. Isocitrate	145	162	63-232
10. α-Ketoglutarate	39.0 H	38.0	<= 82.0
11. Succinate	94.6 H	36.1	<= 61.0
12. Fumarate	2.95 H	0.69	<= 1.56
13. Malate	9.1 H	1.9	<= 4.6
14. Hydroxymethylglutarate	13.9 H	8.9	<= 13.9

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### B-Complex Vitamin Markers

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

	Results	Quintile Ranking	95% Reference Range
	mcg/mg creatinine	1st   2nd   3rd   4th   5th	
15. a-Ketoisovalerate	<DL*	0.29	<= 0.54
16. a-Ketoisocaproate	<DL*	0.42	<= 0.63
17. a-Keto-β-methylvalerate	<DL*	0.42	<= 1.12
18. Xanthurenate	<DL*	0.32	<= 0.46
19. β-Hydroxyisovalerate	20.7 H	13.5	<= 22.5

### Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	1.9	2.4	<= 3.3
21. Formiminoglutamate	0.5	1.9	<= 3.2

### Cell Regulation Markers

#### Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, antioxidants)

22. Vanilmandelate	5.4	2.9   6.4	2.0-8.2
23. Homovanillate	13.3 H	3.3   11.3	2.4-16.7
24. 5-Hydroxyindoleacetate	10.2	3.7   11.9	2.6-22.2
25. Kynurenate	1.0	1.4	<= 2.3
26. Quinolinate	11.5 H	8.0	<= 12.3
27. Picolinate	14.4	16.3	4.8-28.7

#### Oxidative Damage and Antioxidant Markers

(Vitamin C and other antioxidants)

28. p-Hydroxyphenyllactate	1.05 H	0.27	<= 0.67
29. 8-Hydroxy-2-deoxyguanosine	3.0	5.9	<= 8.7

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

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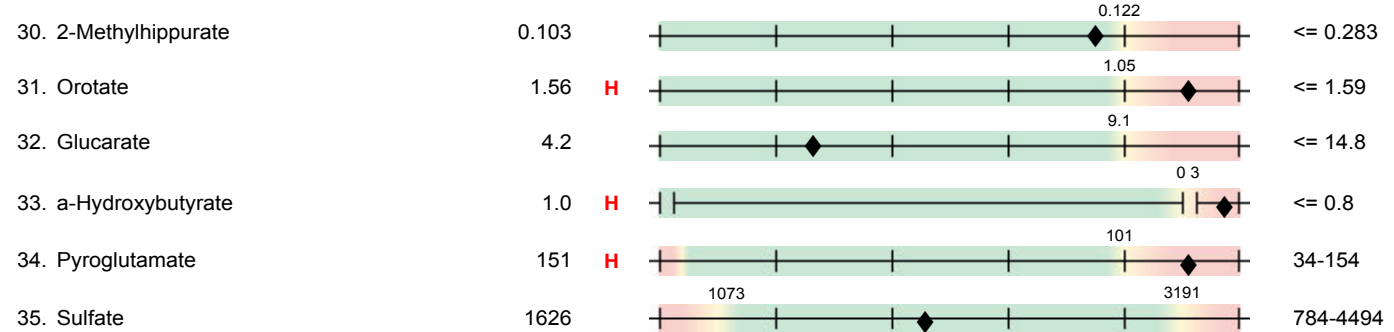


95% Reference Range

### Toxicants and Detoxification

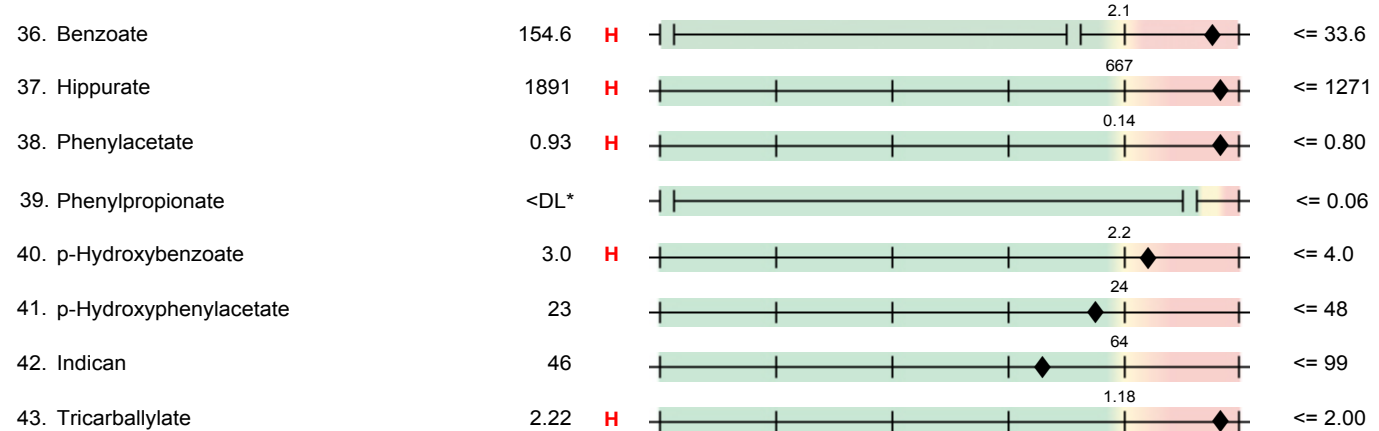
#### Detoxification Indicators

(Arg, NAC, Met, Mg, antioxidants)



### Compounds of Bacterial or Yeast/Fungal Origin

#### Bacterial - general



#### L. acidophilus / general bacterial



#### Clostridial species



#### Yeast / Fungal



Creatinine = 42 mg/dL

\* <DL = less than detection limit

\*\* >LIN = greater than linearity 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 ages 5 and under. 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.

Nutrient	Daily Amounts	
	Base	Units Added
Vitamin A*	625 IU	
B-Carotene*	1375 IU	
Vitamin C	62.5 mg	500 mg
Vitamin D*	100 IU	
Vitamin E	25 IU	100 IU
Vitamin K*	25 mcg	
Thiamin (B1)	1.3 mg	1.3 mg
R boflavin (B2)	1.3 mg	13 mg
Niacin (B3)	6.3 mg	5 mg
Pyridoxine (B6)	3.8 mg	
Folic Acid (or 5-Methyl-THF)	100 mcg	
Vitamin B12	12.5 mcg	
Biotin	25 mcg	250 mcg
Pantothenic Acid (B5)	6.3 mg	6.3 mg
Calcium citrate	125 mg	100 mg
Iodine*	18.8 mcg	
Magnesium	62.5 mg	100 mg
Zinc*	3.8 mg	
Selenium	25 mcg	50 mcg
Copper	0.3 mg	
Manganese*	1.3 mg	
Chromium	50 mcg	
Molybdenum*	6.3 mcg	
Boron*	0.3 mg	

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

MM02

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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.

The dosage recommendations are for children ages 5 and under. Further adjustments for body weight may be needed.

Nutrient	Amount
L. acidophilus strains contraindicated	
Antifungals	As needed
Arginine	500 mg
Carnitine	200 mg
Coenzyme Q10	45 mg
Glycine	1000 mg
Lipoic Acid	25 mg
N-Acetylcysteine	100 mg
Need for other antioxidants	Moderate

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