

Date Collected: 5/29/12
Date Received: 5/30/12
Report Date: 6/6/12

0291 Organix™ Basic Profile

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

Summary of abnormal results:

	<u>Findings</u>	<u>Intervention Options</u>	<u>Common Metabolic Association</u>
<u>Fatty Acid Metabolism</u>			
Adipate	High	Carnitine, B2	Fatty acid oxidation
Suberate	High	Carnitine, B2	Fatty acid oxidation
<u>Carbohydrate Metabolism</u>			
β-Hydroxybutyrate	Very High	Cr, V, Lipoic Acid, Mg, Mn	Ketosis
<u>Energy Production Markers</u>			
No Abnormality Found			
<u>B-Complex Vitamin Markers</u>			
a-Keto-β-Methylvalerate	High	Lipoic Acid, B1, B2, B3, B5	Impaired Isoleucine metabolism
β-Hydroxyisovalerate	High	Biotin, B2	Impaired Isoleucine metabolism
<u>Methylation Cofactor Markers</u>			
No Abnormality Found			
<u>Neurotransmitter Metabolism Markers</u>			
5-Hydroxyindoleacetate	High	---	Serotonin turnover stimulation
Quinolate	High	Magnesium, Immune support	Receptor agonist
Picolinate	High	Add n-3 PUFA, limit protein intake	Inflammatory cytokine stimulation
<u>Detoxification Indicators</u>			
No Abnormality Found			

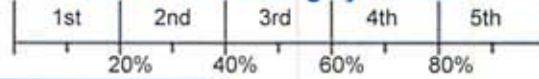
0291 Organix™ Basic Profile

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

Methodology: LC Tandem Mass Spectroscopy, Colorimetric

Ranges are for ages 13 and over

Percentile Ranking by Quintile



95%
Reference
Interval

NUTRIENT MARKERS

Fatty Acid Metabolism

(Carnitine & B2)

Results
ug/mg creatinine

Item	Result	Flag	Percentile	Reference Interval
1 Adipate	7.3	H	6.2	<= 11.1
2 Suberate	2.6	H	2.1	<= 4.6
3 Ethylmalonate	3.1		3.6	<= 6.3

Carbohydrate Metabolism

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

Item	Result	Flag	Percentile	Reference Interval
4 Pyruvate	<DL*		3.9	<= 6.4
5 L-Lactate	4.5		12.6	1.6 - 57.1
6 β-Hydroxybutyrate	18.9	H	2.1	<= 9.9

Energy Production (Citric Acid Cycle)

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

Item	Result	Flag	Percentile	Reference Interval
7 Citrate	209		601	56 - 987
8 Cis-Aconitate	35		51	18 - 78
9 Isocitrate	82		98	39 - 143
10 α-Ketoglutarate	<DL*		19.0	<= 35.0
11 Succinate	2.7		11.6	<= 20.9
12 Fumarate	<DL*		0.59	<= 1.35
13 Malate	0.7		1.4	<= 3.1
14 Hydroxymethylglutarate	2.8		3.6	<= 5.1

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95%
Reference
Interval

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B-Complex Vitamin Markers
 (B1, B2, B3, B5, B6, Biotin)

Results
ug/mg creatinine

Marker	Result	Percentile	95% Reference Interval
15 a-Ketoisovalerate	<DL*	0.25	<= 0.49
16 a-Ketoisocaproate	<DL*	0.34	<= 0.52
17 a-Keto-β-Methylvalerate	0.63 H	0.38	<= 1.10
18 Xanthurenate	0.13	0.34	<= 0.46
19 β-Hydroxyisovalerate	8.6 H	7.6	<= 11.5

Methylation Cofactor Markers
 (B12, Folate)

20 Methylmalonate	1.5	1.7	<= 2.3
21 Formiminoglutamate	1.2	1.2	<= 2.2

CELL REGULATION MARKERS

Neurotransmitter Metabolism Markers
 (Tyrosine, Tryptophan, B6, antioxidants)

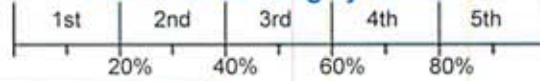
22 Vanilmandelate	2.8	1.6 - 3.9	1.2 - 5.3
23 Homovanillate	2.5	1.9 - 5.7	1.4 - 7.6
24 5-Hydroxyindoleacetate	5.7 H	2.1 - 5.6	1.6 - 9.8
25 Kynurenate	0.8	1.0	<= 1.5
26 Quinolinate	4.3 H	4.0	<= 5.8
27 Picolinate	10.2 H	8.0	2.8 - 13.5

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Percentile Ranking by Quintile



**95%
Reference
Interval**

Ranges are for ages 13 and over

TOXICANTS AND DETOXIFICATION

Detoxification Indicators (Arg, NAC, Met, Mg, antioxidants)	Results ug/mg creatinine			
28 2-Methylhippurate	0.079	0.084		<= 0.192
29 Orotate	0.13	0.69		<= 1.01
30 Glucarate	3.5	6.3		<= 10.7
31 a-Hydroxybutyrate	<DL*	0.3		<= 0.9
32 Pyroglutamate	39	59		28 - 88

Creatinine = 76 mg/dL

* <DL = less than detection limit

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 for insurance of 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*	2500 IU	
B-Carotene*	5500 IU	
Vitamin C	250 mg	1000 mg
Vitamin D*	400 IU	
Vitamin E	100 IU	200 IU
Vitamin K*	100 mcg	
Thiamin (B1)	5 mg	5 mg
Riboflavin (B2)	5 mg	10 mg
Niacin (B3)	25 mg	20 mg
Pyridoxine (B6)	15 mg	
Folic Acid (or 5-Methyl-THF)	400 mcg	
Vitamin B12	50 mcg	
Biotin	100 mcg	1000 mcg
Pantothenic Acid (B5)	25 mg	25 mg
Calcium citrate	500 mg	
Iodine*	75 mcg	
Magnesium	250 mg	200 mg
Zinc*	15 mg	
Selenium	100 mcg	50 mcg
Copper	1 mg	
Manganese*	5 mg	
Chromium	200 mcg	200 mcg
Molybdenum*	25 mcg	
Boron*	1 mg	

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

MM02

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.

Carnitine	800 mg
Lipoic Acid	100 mg
Need for other antioxidants	Moderate
Vanadium	200 mcg