



Accession Number: **A0711180042**  
 Reference Number:  
 Patient: Sample Report  
 Age: 57 Sex: F  
 Date of Birth: 12/25/1949  
 Date Collected: 11/18/07  
 Date Received: 11/18/07  
 Report Date: 12/5/07  
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 Reprinted: 1/2/08  
 Comment:

Ordering Physician:  
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 Duluth, GA 30096

**0291 Organix™ Basic Profile**

**Summary of abnormal results:**

	<u>Findings</u>	<u>Intervention Options</u>	<u>Metabolic Association</u>
<b>B-Vitamin Insufficiency</b>			
No Abnormality Found			
<b>Cellular Energy</b>			
Suberate	High	Carnitine, B2	Fatty acid oxidation
Ethylmalonate	High	Carnitine, B2	Fatty acid oxidation
b-Hydroxybutyrate	Very High	Cr, V, Lipoic Acid, Mg, Mn	Ketosis
Succinate	High	CoQ10	ATP production
Fumarate	High	CoQ10	ATP production
Malate	High	CoQ10	ATP production
Hydroxymethylglutarate	Very High	CoQ10	HMG-CoA reductase inhibition
<b>General Amino Acid Deficiency</b>			
a-Ketoglutarate	Very Low	Free-form amino acids	Amino Acid insufficiency
<b>Neural Function</b>			
No Abnormality Found			
<b>Detoxification</b>			
Cis-Aconitate	High	Arginine, Lipoic Acid	Renal ammonia loading
Isocitrate	High	Arginine, Lipoic Acid	Renal ammonia loading
Glucarate	High	N-acetylcysteine, Glutathione, Hepatic support	Hepatic Phase I and II detox
a-Hydroxybutyrate	High	N-acetylcysteine, Glutathione, other sulfur containing a. a.	Glutathione demand

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Sample Report

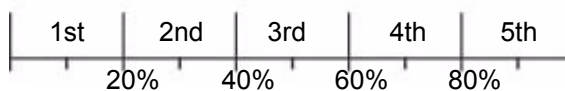
This report is not intended for the diagnosis of neonatal inborn errors of metabolism.

**0291 Organix™ Basic Profile**

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

**Percentile Ranking by Quintile**

Results are expressed as mcg/mg creatinine.  
Ranges are for ages 13 and over



**95%  
Reference  
Interval**

**B-Vitamin Insufficiency**

Item	Value	Percentile	Reference Interval
1 Pyruvate	< 0.5	4.1	<= 7.1
2 a-Ketoglutarate	1.7 <b>L</b>	27.8	2.6 - 60.0
3 a-Ketoisovalerate	0.52	0.60	<= 0.94
4 a-Ketoisocaproate	0.18	0.39	<= 0.58
5 a-Keto-β-Methylvalerate	1.1	1.6	<= 2.7
6 Xanthurenate	0.5	0.6	<= 1.2
7 β-Hydroxyisovalerate	4.7	9.0	<= 15.3
8 Methylmalonate	2.0	2.3	<= 3.4
9 Formiminoglutamate	0.57	1.21	<= 2.28

**Cellular Energy**

Item	Value	Percentile	Reference Interval
10 Adipate	4.3	5.7	<= 10.3
11 Suberate	2.3 <b>H</b>	1.8	<= 3.3
12 Ethylmalonate	7.6 <b>H</b>	5.5	<= 8.5
13 Lactate	10.0	19.4	2.5 - 57.0
14 β-Hydroxybutyrate	23.0 <b>H</b>	2.8	<= 12.8
15 Succinate	28.3 <b>H</b>	12.3	1.1 - 34.0
16 Fumarate	1.36 <b>H</b>	0.71	<= 1.40
17 Malate	4.3 <b>H</b>	2.3	<= 4.3
18 Hydroxymethylglutarate	20.5 <b>H</b>	6.8	<= 9.7

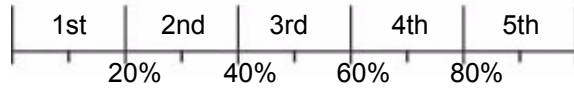
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**95%  
Reference  
Interval**

**Neural Function**

Item	Value	Percentile	Reference Interval
19 Vanilmandelate	3.0	1.1	0.4 - 5.3
20 Homovanillate	3.2	1.6	0.7 - 17.0
21 5-Hydroxyindoleacetate	2.5	1.5	0.7 - 26.0
22 Kynurenate	1.2	1.6	<= 2.5
23 Quinolate	4.6	10.2	<= 16.5

**Detoxification**

Item	Value	Percentile	Reference Interval
24 Citrate	828	948	127 - 1,550
25 Cis-Aconitate	84 <b>H</b>	76	29 - 122
26 Isocitrate	108 <b>H</b>	92	36 - 130
27 2-Methylhippurate	0.012	0.047	<= 0.106
28 Orotate	0.4	1.0	<= 1.6
29 Glucarate	11.5 <b>H</b>	7.0	<= 11.9
30 a-Hydroxybutyrate	1.6 <b>H</b>	1.2	<= 2.2
31 Pyroglutamate	22	43	< 72

Creatinine =215 mg/dl

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## 0291 Organix™ Basic Profile

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

### Supplement Recommendation Summary

With knowledge of a patient's full medical history and concerns, the Organix Basic 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. All amounts are adult doses that should be adjusted for children according to body weight and indication of need.

#### 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. If such a product is made according to these specifications each dose should be thoroughly stirred into a few ounces of water or diluted fruit juice to allow bubbles to form and avoid stomach bloating effects.

#### Daily Amounts

Nutrient	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	300 IU
Vitamin K*	100 mcg	
Thiamin (B1)	5 mg	
Riboflavin (B2)	5 mg	10 mg
Niacin (B3)	25 mg	
Pyridoxine (B6)	15 mg	
Folic Acid	400 mcg	
Vitamin B12	50 mcg	
Biotin	100 mcg	
Pantothenic Acid (B5)	25 mg	
Calcium	500 mg	
Iodine*	75 mcg	
Magnesium	250 mg	200 mg
Zinc*	15 mg	
Selenium	100 mcg	100 mcg
Copper	1 mg	
Manganese	5 mg	2 mg
Chromium	200 mcg	200 mcg
Molybdenum*	25 mcg	
Boron*	1 mg	
Citric Acid*	200 mg	
Malic Acid*	200 mg	

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

MM02

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*Methodology: LC/Tandem Mass Spectroscopy, Colorimetric*

**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.

<b>Nutrient</b>	<b>Amount</b>
Alpha-Ketoglutarate	500 mg
Arginine	1000 mg
Carnitine	800 mg
Coenzyme Q10	120 mg
Lipoic Acid	300 mg
N-Acetylcysteine	400 mg
Need for Other Antioxidants	Moderate
Vanadium	200 mcg

- If orotate is elevated, amino acid supplementation may be contraindicated, except for arginine.
- These guidelines are intended as a starting point for the clinician who requested the test and are based only on the laboratory results included in this report. Final recommendations should be implemented by the clinician with consideration of medical history and current clinical observations.
- These tests are not intended for the diagnosis of specific disorders.