



Chronically Ill Patients Want an Answer, Not a Label

Identifying the cause of chronic illness is the first step toward achieving a favorable outcome. Integrative clinicians rely on the **OrganixSM Profile** to reveal the nutritional and metabolic basis of patient symptoms, just as traditional practitioners might use a serum chemistry to establish a diagnostic baseline. The Organix Profile provides a view into the body's cellular metabolic processes and the efficiency of metabolic function. Identifying metabolic blocks that can be treated nutritionally allows individual tailoring that maximize patient responses and lead to improved patient outcomes.

Organic acids are metabolic intermediates produced in pathways of central energy production, detoxification, neurotransmitter breakdown, or intestinal microbial activity. Accumulation of specific organic acids in urine often signals a metabolic inhibition or block. This may be due to a nutrient deficiency, an inherited enzyme deficit, toxic build-up, or drug effect.

Organix Profiles Include:

- **Organix Comprehensive** - The complete organic acids profile
- **Organix Basic** - Great for follow up testing when dysbiosis markers aren't needed
- **Organix Dysbiosis** - Measures the by-products of microbial metabolism to assess overgrowth and guide and monitor therapy

From a single urine specimen, the Organix Profile provides important information in the areas of:

- Vitamin and mineral insufficiencies
- Amino acid insufficiencies like carnitine and NAC
- Oxidative damage and anti-oxidant sufficiency markers
- Indicators to assess detoxification sufficiency
- The best functional markers of B-complex deficiency
- Neurotransmitter metabolites to assess CNS function
- Mitochondrial energy production assessment via citric acid cycle components
- Methylation sufficiency status
- Lipoic acid and CoQ10 sufficiency markers
- Specific dysbiosis markers for bacterial and yeast overgrowth



Individualized Solutions for Integrative CliniciansSM

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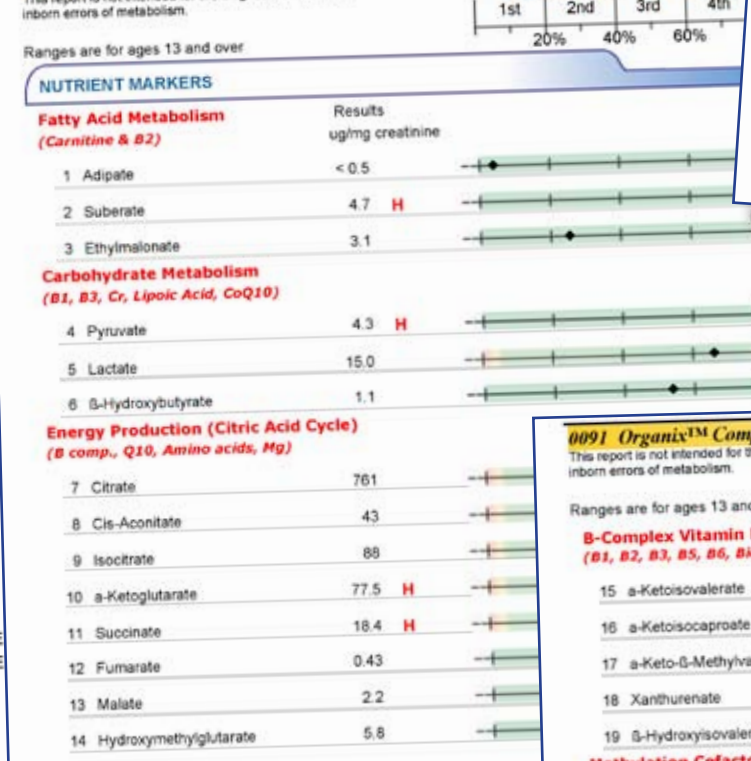
4855 Peachtree Industrial Blvd.
Suite 201
Norcross, GA 30092

Accession Number: **A0703010006**
Reference Number:
Patient: **Sample Report**
Age: 57 Sex: F
Date of Birth: 12/25/1949
Date Collected: 2/28/07
Date Received: 3/1/07
Report Date: 3/1/07
Telephone: 7704465483
Fax: 7704412237
Reprinted: 4/18/07
Comment:

0091 OrganixSM Comprehensive Profile
Summary of abnormal results:

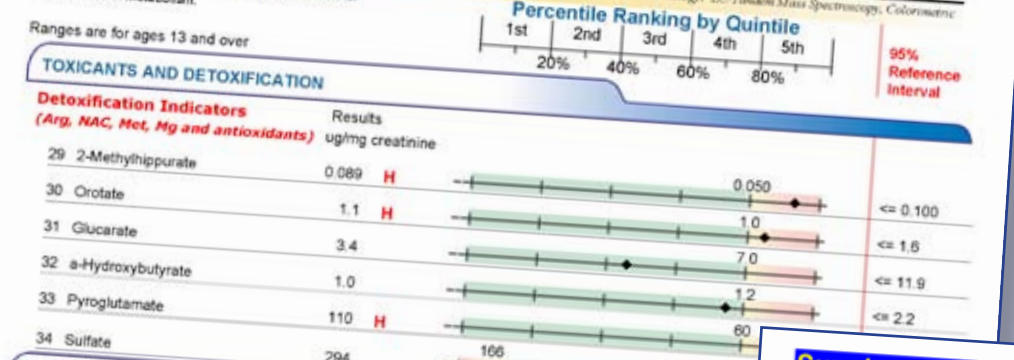
Nutrient Markers	Findings	Intervention Option
Fatty Acid Metabolism		
Suberate	Very High	Carnitine, B2
Carbohydrate Metabolism		
Pyruvate	High	Lipoic Acid, B1, B2,
Energy Production Markers		
a-Ketoglutarate	Very High	CoQ10, Lipoic Acid,
Succinate	High	CoQ10
B-Complex Vitamin Markers		
a-Ketoisocaproate	Very High	Lipoic Acid, B1, B2,
a-Keto-B-Methylvalerate	Very High	Lipoic Acid, B1, B2,
Xanthurenate	High	B6
B-Hydroxyisovalerate	High	Biotin, B2
Methylation Cofactor Markers		
No Abnormality Found		
Cell Regulation Markers		
Neurotransmitter Metabolism Markers		
Kynurenate	High	B6
Oxidative Damage and Antioxidant Markers		
p-Hydroxyphenyllactate	Very High	Vitamin C, Vitamin E
8-Hydroxy-2-deoxyguanosine	Very High	Vitamin C, Vitamin E
Toxicants and Detoxification		
Detoxification Indicators		
2-Methylhippurate	High	Glycine
Orotate	High	Arginine, Magnesium

0091 OrganixSM Comprehensive Profile

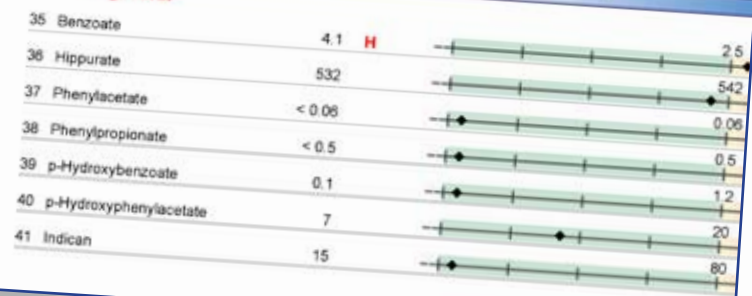


Urea cycle overload (ammonia toxicity)

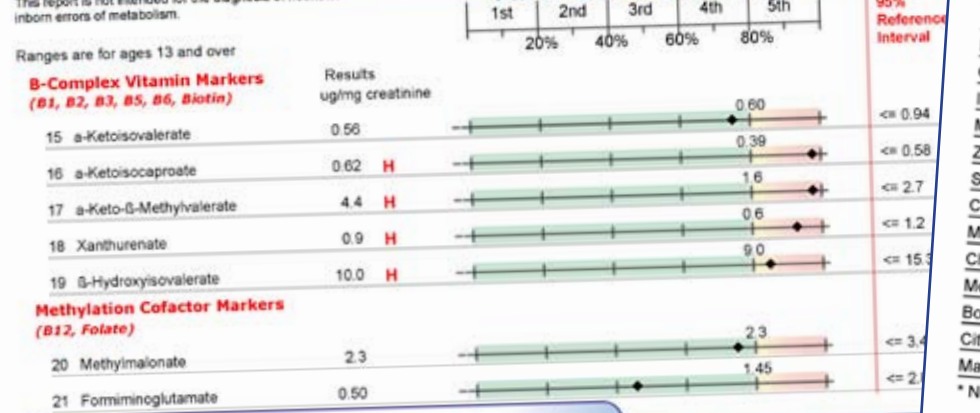
0091 OrganixSM Comprehensive Profile



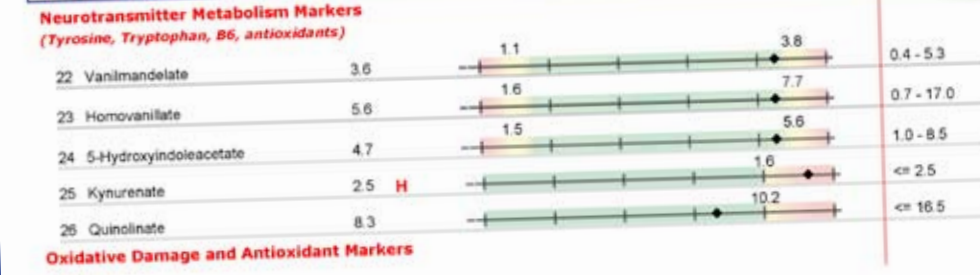
COMPOUNDS OF BACTERIAL OR YEAST/FUNGAL ORIGIN



0091 OrganixSM Comprehensive Profile



CELL REGULATION MARKERS



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. 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.

Nutrient	Base	Daily Amounts
Vitamin A*		Units Added
B-Carotene*	2500 IU	
Vitamin C	5500 IU	
Vitamin D*	250 mg	3000 mg
Vitamin E	400 IU	
Vitamin K*	100 IU	800 IU
Thiamin (B1)	100 mcg	
Riboflavin (B2)	5 mg	20 mg
Niacin (B3)	5 mg	10 mg
Pyridoxine (B6)	25 mg	20 mg
Folic Acid	15 mg	100 mg
Vitamin B12	400 mcg	
Biotin	50 mcg	
Pantothenic Acid (B5)	100 mcg	1000 mcg
Calcium	25 mg	50 mg
Iodine*	500 mg	400 mg
Magnesium	75 mcg	
Zinc*	250 mg	400 mg
Selenium	15 mg	
Copper	100 mcg	100 mcg
Manganese	1 mg	
Chromium	5 mg	
Molybdenum*	200 mcg	
Boron*	25 mcg	
Citric Acid*	1 mg	
Malic Acid*	200 mg	
	200 mg	

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

Comprehensive Profile



Organix Profile – Urine

Test # 0091 Organix Comprehensive

Test # 0291 Organix Basic

Test # 0097 Organix Dysbiosis

Specimen Requirements

Overnight urine, 12 ml, frozen

Method

LC/MS-MS, Spectrophotometry

Turnaround Time

8-14 days, 12 days average

Test # 0091 CPT Codes

Arabinitol, single, quantitative	84378
Citrate	82507
Creatinine	82570
Homovanillate	83150
5-Hydroxyindoleacetate	83497
LC/MS-MS, NES; quantitative:	
8-Hydroxy-2'-deoxyguanosine	83789
Indican	84311
D-Lactate	83605
Pyruvate	84210
Sulfate	84392
Vanilmandelate	84585
Organic acid, single, quantitative	83921 x 34

Test # 0291 CPT Codes

Citrate	82507
Creatinine	82570
Homovanillate	83150
5-Hydroxyindoleacetate	83497
D-Lactate	83605
Pyruvate	84210
Vanilmandelate	84585
Organic acid, single, quantitative	83921 x 24

Test # 0097 CPT Codes

Arabinitol, single, quantitative	84378
Creatinine	82570
Indican	84311
D-Lactate	83605
Organic acid, single, quantitative	83921 x 8

Analytes	Comprehensive	Basic	Dysbiosis
Adipate	✓	✓	
Suberate	✓	✓	
Ethylmalonate	✓	✓	
Pyruvate	✓	✓	
Lactate	✓	✓	
Beta-Hydroxybutyrate	✓	✓	
Citrate	✓	✓	
cis-Aconitate	✓	✓	
Isocitrate	✓	✓	
Alpha-Ketoglutarate	✓	✓	
Succinate	✓	✓	
Fumarate	✓	✓	
Malate	✓	✓	
Hydroxymethylglutarate	✓	✓	
Alpha-Ketoisovalerate	✓	✓	
Alpha-Ketoisocaproate	✓	✓	
Alpha-Keto-Beta-Methylvalerate	✓	✓	
Xanthurenate	✓	✓	
Beta-Hydroxyisovalerate	✓	✓	
Methylmalonate	✓	✓	
Formiminoglutamate	✓	✓	
Vanilmandelate	✓	✓	
Homovanillate	✓	✓	
5-Hydroxyindoleacetate	✓	✓	
Kynurenate	✓	✓	
Quinolate	✓	✓	
p-Hydroxyphenyllactate	✓		
8-Hydroxy-2'-deoxyguanosine	✓		
2-Methylhippurate	✓	✓	
Orotate	✓	✓	
Glucarate	✓	✓	
Alpha-Hydroxybutyrate	✓	✓	
Pyroglutamate	✓	✓	
Sulfate	✓		
Benzoate	✓		✓
Hippurate	✓		✓
Phenylacetate	✓		✓
Phenylpropionate	✓		✓
p-Hydroxybenzoate	✓		✓
p-Hydroxyphenylacetate	✓		✓
Indican	✓		✓
Tricarballoylate	✓		✓
D-Lactate	✓		✓
3,4 Dihydroxyphenylpropionate	✓		✓
D-Arabinitol	✓		✓
Creatinine	✓	✓	✓



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