

# ORGANIC ACIDS PROFILE



**US BioTek**  
LABORATORIES

## WHAT IS METABOLIC PROFILING?

The onset of symptoms associated with non-IgE-Metabolic Profiling is the analysis of organic acids in urine. Measuring organic acids from a collected morning urine sample can create a unique profile or “fingerprint” of your body’s biochemistry. It serves as a reflection of how well your body is obtaining and utilizing the nutrients gained from your diet. From a nutritional standpoint, organic acids testing is a way to assess nutrient imbalances of vitamins, minerals and other cofactors. By identifying these imbalances, your doctor can create a customized and targeted approach to support your unique biochemical needs.

## WHAT ARE ORGANIC ACIDS?

**ORGANIC ACIDS ARE INTERMEDIATE AND END PRODUCTS OF METABOLISM.**

Metabolism involves the many processes needed to support a healthy body: defend against infection, repair from injury, adapt to stress, eliminate waste products, and produce energy for the growth and maintenance of our vital organs. Virtually all of these processes require vitamins, minerals and other essential nutrients to function optimally. But, when there is a potential problem in the pipelines either due to a deficit or imbalance of nutrients, patterns of organic acids revealed in the urine can serve to red flag these problem areas to your doctor.



Measuring organic acids in urine is a tool to assess the utility of key nutrients involved in many aspects of metabolism.

### THE ORGANIC ACIDS PROFILE MEASURES 36 MARKERS OF:

- Cellular Respiration
- Fatty Acid & Amino Acid Metabolism
- Neurotransmitter Metabolism
- Detoxification and Intestinal Health

## WHY USE ORGANIC ACID TESTING?

Poor digestion and assimilation of our daily foods, exposure to environmental toxins, oxidative stress from free radicals, drug effects, or an inherent special metabolic demand can create deficits or imbalances in essential nutrients that, left unchecked, may put one at a greater risk for disease over time. Organic acid testing can evaluate your need for B-vitamins, key antioxidants, minerals and other nutrients that may be lacking as a result of diet and lifestyle habits.

Chronic disease can be difficult to assess. Many disease processes have slow or insidious beginnings, often with vague and nonspecific symptoms such as fatigue, muscle weakness or pain, achy joints, difficulty focusing on tasks or retaining information, bowel irregularities, weight gain, depression, anxiety and sleep abnormalities.



## WARNING SIGNS THAT MAY SUGGEST NUTRIENT INSUFFICIENCIES:

- Fatigue
- Memory loss
- Mood changes (depression, anger, agitation, anxiety, etc.)
- Sleep abnormalities
- Problems maintaining steady blood sugar (heart palpitations, shakiness, sweating, nausea, etc.)
- Dermatitis
- Headaches
- Weight gain
- Anemia
- History of cardiovascular disease risk

The goal of organic acids testing is to identify your unique nutrient demands for a targeted intervention. This approach can address many of these early warning signs head-on before chronic illness sets in. As part of a comprehensive diet and lifestyle plan, organic acid testing may help address the risks of cardiovascular disease, obesity, diabetes and other chronic health afflictions.

## HOW IS ORGANIC ACID TESTING DONE?

A first morning mid-stream urine catch is all that's required. The urine sample is collected onto our proprietary absorbent strips, and mailed to US BioTek Laboratories for analysis. Analysis is performed by Liquid Chromatography/Triple Quadrupole Mass Spectrometry (LC-MS/MS), which quantitatively evaluates the specimen for metabolically-derived organic acids.



*The LC-MS/MS platform offers superb separation, resolution, and identification of compounds, yielding precise and repeatable test results.*



US BioTek Laboratories has developed and determined the performance characteristics of this test. This test has not been cleared or approved by the U.S. Food and Drug Administration (FDA). US BioTek makes no claims as to the diagnostic or therapeutic use of its tests or other informational materials. US BioTek's test results and other information do not constitute medical advice, are provided for educational purposes only, and are not a substitute for professional medical advice. US BioTek is not responsible or liable for misuse or misinterpretation of the information provided, or any diagnoses or healthcare changes initiated by a patient or a healthcare practitioner based on the content of US BioTek's informational materials.

# ADVANTAGES OF THE US BIOTEK LABORATORIES' ORGANIC ACIDS PROFILE



- **INNOVATIVE METHOD**  
Specimen collection utilizes our simple urine collection strips to maximize analyte stability and recovery.
- **SINGLE URINE COLLECTION**  
A first morning mid-stream urine catch is easy for you to collect at home.
- **NO REFRIGERATION OF SPECIMEN REQUIRED**  
Dried specimen is stable at room temperature.
- **NO OVERNIGHT SHIPPING REQUIRED**

## OTHER TESTING SERVICES

- Environmental Pollutants Profile
- Specific IgG, IgG4, IgA, and IgE Antibody Panels for Common Foods & Inhalants
- Candida Antibodies & Antigen Panel
- Celiac Antibody Panel



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