OAp™

ORGANIC ACIDS PROFILE

Improve Your Patients' Metabolic Health with the OAp - Organic Acids Profile

The **OAp™ - Organic Acids Profile** offers a detailed and reliable analysis of urine metabolites. Metabolites are the substrates, intermediates, and products of metabolism and can aid in a more thorough understanding of an individual's metabolic health.

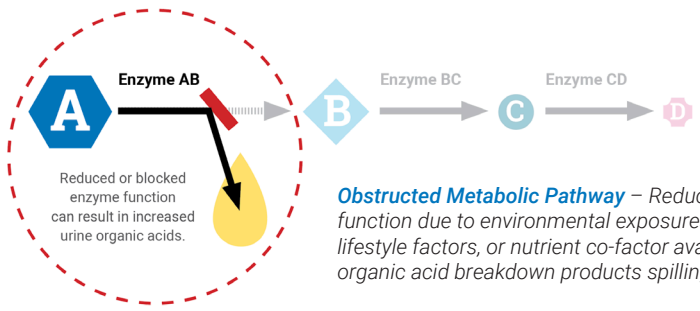
OAp reveals specific patterns of metabolites due to the impact of diet, lifestyle, environmental exposures, nutritional deficiencies, gut microbes, disease processes, and individual genetics.

The OAp test presents analytes in an intuitive report format, offering clear insights into individual metabolic pathway statuses and dysfunctions. The detailed report includes a summary of imbalances, specific intervention considerations, and personalized nutritional recommendations.

This comprehensive profile delivers actionable results to help optimize metabolic health outcomes for your patients with a simple first-morning urine collection.

Provides Insight Into the Following Areas of Functional Health

- Energy & Mitochondrial Processing
- Nutritional Status
- Stress & Mood
- Toxic Impacts
- Microbial Metabolites



Obstructed Metabolic Pathway *– Reduced or blocked enzyme function due to environmental exposures, individual genetics, lifestyle factors, or nutrient co-factor availability can lead to organic acid breakdown products spilling into the urine.*

OAp™ - Organic Acids Profile

Scan with Your Camera to Learn More

Diagnostic Solutions laboratory

RESEARCH. TECHNOLOGY. RESULTS.

www.diagnosticsolutionslab.com • 5895 Shiloh Rd Ste 101 Alpharetta, GA 30005 • 877.485.5336

List of Analytes Reported

KEY:

- Identifies section subcategory
  - » *Identifies a test analyte*

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Energy & Mitochondrial Processing

- **Glycolysis**
  - » Glucose
  - » Pyruvic Acid
  - » Lactic Acid
  - » D-Lactic Acid
- **Krebs Cycle**
  - » Citric Acid
  - » *cis*-Aconitic Acid
  - » Isocitric Acid
  - » α-Ketoglutaric Acid
  - » Succinic Acid
  - » Fumaric Acid
  - » Malic Acid
- **Fatty Acid Oxidation**
  - » Ethylmalonic Acid (C5)
  - » 2-Methylsuccinic Acid (C5)
  - » Adipic Acid (C6)
  - » Pimelic Acid (C7)
  - » Suberic Acid (C8)
  - » Sebacic acid (C10)
- **Carnitine Depletion**
  - » Gluttaric Acid
- **Ketones**
  - » β-Hydroxybutyric Acid

Nutrition

- **B-Complex (B1, B2, B3, B5)**
  - » α-Ketoisovaleric Acid
  - » α-Keto-β-Methylvaleric Acid
  - » α-Ketoisocaproic Acid
  - » α-Ketoglutaric Acid
  - » Pyruvic Acid
- **Vitamin B12**
  - » Methylmalonic Acid (MMA)
- **Folate**
  - » Formiminoglutamic Acid
- **Vitamin B6**
  - » Pyridoxic Acid
  - » Xanthurenic Acid
- **Biotin**
  - » 3-Hydroxyisovaleric Acid
- **Plant Components**
  - » Quercetin
  - » Tartaric Acid
- **Sugar Intake**
  - » Fructose

Stress & Mood

- **Catecholamine Turnover**
  - » Homovanillic Acid (HVA)
  - » Vanillylmandelic Acid (VMA)
  - » HVA/VMA Ratio
- **Serotonin Turnover**
  - » 5-Hydroxyindoleacetic Acid (5-HIAA)
  - » Picolinic Acid
  - » Kynurenic Acid (KA)
  - » Quinolinic Acid (QA)
  - » QA/KA Ratio
- **Steroid Hormone**
  - » Cortisol
  - » Cortisol/Cortisone Ratio

Toxic Impacts

- **Oxidative Damage**
  - » 8-Hydroxy-2-deoxyguanosine (8-OHdG)
- **Toxins**
  - » 2-, 3-, 4-Methylhippuric Acid
  - » Mandelic Acid
  - » Benzoylform
  - » Glucaric Acid
- **Glutathione Status**
  - » α-Hydroxybutyric Acid
  - » α-Ketobutyric Acid
  - » Pyroglutamic Acid
- **Kidney Impacts**
  - » Oxalic Acid
  - » pH
  - » Microalbumin
  - » Phosphate
  - » Creatinine
  - » Aldosterone
- **Oxalate Metabolism**
  - » Oxalic Acid
  - » Glyceric Acid
  - » Glycolic Acid

Microbial Metabolites

- **Microbial Metabolites of Phenylalanine & Tryptophan**
  - » Indoleacetic acid
  - » 4-Hydroxyphenylacetic Acid
  - » Phenylacetic Acid
- **Microbial Metabolites**
  - » Benzoic Acid
  - » Hippuric Acid
  - » 3,4-Dihydroxyhydrocinnamic Acid
  - » 3,5-Dihydroxybenzoic Acid
  - » 4-Hydroxybenzoic Acid
- **Isoflavone Microbial Metabolites**
  - » Equol
- **Fungal Metabolites**
  - » Arabinitol
  - » Citramalic Acid
  - » Tricarballylic Acid
  - » Tartaric Acid

* *Exact number of analytes reported may differ from those shown on this page.*

Account setup forms are available on our website, via email at cs@diagnosticsolutionslab.com, or by phone at 877-485-5336.

TEST ORDERING OPTIONS & SPECIMEN REQUIREMENTS

- OAp™ - Organic Acids Profile | Urine

- OMX™ - Organic Metabolomics | Urine & Plasma *(optional profile)*
- AAp™ - Amino Acids Profile | Plasma *(optional profile)*
- GI-MAP® - GI Microbial Assay Plus | Stool *(optional profile)*

GETTING STARTED

- Set up an account
- Order online on our website, via email, or by phone

LEARN MORE

Visit the OAp web page to download this document.

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