

Urinary Organic Acids

Metabolic Analysis Profile & Cellular Energy Profile



This assessment of urine metabolites evaluates four critical areas of metabolism: gastrointestinal function, cellular energy production, neurotransmitter processing and amino acid-organic acid balance as influenced by vitamin, mineral cofactors. Results can be used to address chronic systemic complaints ranging from fatigue, mood disorders, headaches, muscular / joint pain and digestive problems.

Test Kit

Once the practitioner has given the patient their request form, the patient can order their test kit online, www.functionalpathology.com.au or by calling Healthscope Functional Pathology Customer Service on 1300 55 44 80 between the hours of 8.30am and 5.30pm AEST. The test kit contains full instructions.

Specimen Requirements

- *Two specimens are required from the first morning urine void - frozen*

Children

This test kit is suitable for children aged 2-12 years. Children's reference ranges, as well as adult reference ranges are available.

Patient Preparation

Abnormal kidney function or use of diuretics may influence test results. This test should not be performed on individuals with kidney disorders. Certain medications may also impact test results, including corticosteroids, antibiotics, amphetamines, antihistamines, cimetidine (Tagamet), and penicillin.

4 days before the test - Discontinue all of the following (unless instructed otherwise by the practitioner): Non-essential medications including acetaminophen and over-the-counter cold remedies; any vitamins, minerals, amino acids and herbal supplements taken regularly, including enhanced sports drinks, energy drinks and vitamin waters.

2 days before the test - Discontinue creatine, alphaketoglutarate, and malic acid supplements; as well as citrate, malate or orotate forms of minerals.

24 hours before the test - Avoid eating or drinking any products containing aspartame, e.g. Nutrasweet or Equal, and monosodium glutamate (MSG). Also avoid over-consuming any single food. Otherwise follow the usual diet and limit fluid intake to 8 standard glasses of fluid over a 24 hour period.

Turnaround Time

The standard turn around time for this test is 16-20 working days from the date the patient's specimen/s are received at our laboratory. This test is performed by Genova Diagnostics, USA, for whom Healthscope Functional Pathology is the exclusive Australian distributor.

Test Results

Patient results will be delivered via mail, unless requested otherwise. However, we can also issue results via:

- Fax
- Electronic Download
- Web Based Results

Technical Support

All Healthscope Functional Pathology tests are accompanied by an Interpretive Guide to assist practitioners in their clinical understanding and patient management for each result. Healthscope Functional Pathology also has experienced full time Technical Advisors available for practitioners to discuss appropriate test selection, interpretation of test results, individual cases and other technical matters. Please call 1300 55 44 80 between the hours of 8.30am and 5.30pm AEST, or email infofp@healthscope.com.au

Companion Tests

- Complete Digestive Stool Analysis (CDSA)
- Intestinal Permeability (IP)
- IgG Food Sensitivity
- Vitamins, Minerals and Antioxidants

The results of the Metabolic Analysis Profile may be further supported by additional Healthscope Functional Pathology tests. For example, elevated malabsorption and dysbiosis markers may indicate the need to perform the Complete Digestive Stool Analysis (CDSA) to obtain further information on the underlying causes of poor digestive function, particularly imbalance of yeasts and bacteria.

High levels of malabsorption and dysbiosis markers are also indicative of altered intestinal permeability and/or food sensitivity, therefore an Intestinal Permeability (IP) test and IgG Food Sensitivity test are also recommended.

As a number of vitamins, minerals and antioxidants are required in amino acid and neurotransmitter processing, the results of the Metabolic Analysis Profile may indicate functional deficiency of these nutrients. A blood test to assess these is therefore recommended in conjunction with the Metabolic Analysis Profile. The main cofactors for organic acid balance are vitamins B6, B12 and C, and the minerals magnesium, copper and iron.