WHAT ARE INHERITED METABOLIC DISEASES?

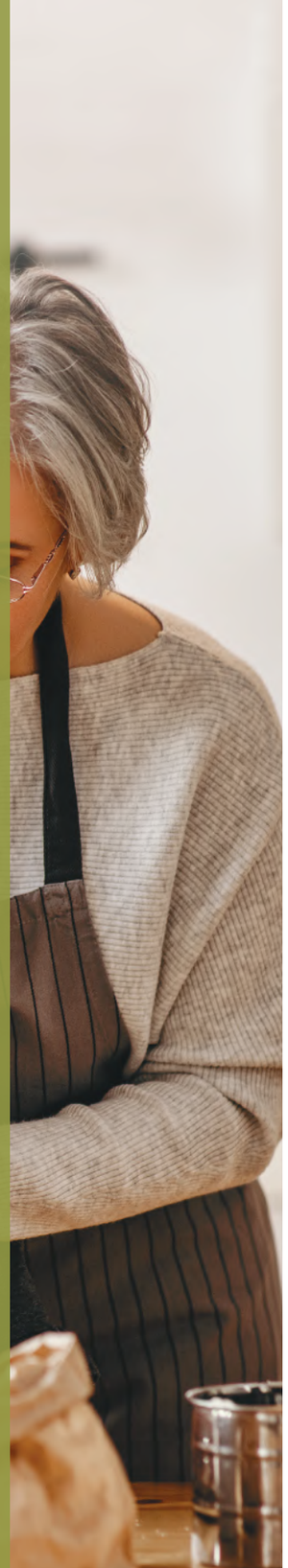
Metabolic pathways have pivotal roles in keeping our bodies healthy. Their many actions include producing energy and taking the necessary nutrients from the foods we consume. When a mutation (genetic change) occurs in a metabolic pathway, it can lead to either accumulation of toxic substances in our body, or insufficient production of required products that keep us healthy and functional. As a result, metabolic diseases can **affect our health** and **development**, and cause **acute** and **chronic complications**.

Symptoms of inherited metabolic diseases usually appear shortly after birth. However, depending on the mutation, the metabolic pathway involved and the severity of the condition, some people with inherited metabolic diseases can develop symptoms in **early or late adulthood**. There is **great variability** in the symptoms and the severity of symptoms caused by metabolic diseases. Importantly, adults and children with the same metabolic disorder may have **different symptoms**. In addition, the misconception that metabolic diseases only affect babies and young children, leaves many adults suffering from metabolic diseases **unrecognized** and **undetected**.

Symptoms of metabolic diseases include:

- Vomiting
- Abdominal pain
- Lethargy
- Psychological or neurological symptoms
- Weight loss
- Seizures

Additional symptoms may include vision disturbances, impaired kidney function, heart problems, abnormal movements, behavioral or learning issues, distinctive facial features and recurrent infections.



HOW IS **Evartia** ADMINISTERED?

ASK YOUR DOCTOR ABOUT **Evartia**

YOUR DOCTOR WILL COLLECT A SAMPLE USING A BUCCAL SWAB

THE SAMPLE WILL BE SENT TO **NIPD Genetics**

THE SAMPLE WILL BE ANALYZED IN OUR LABORATORY

RESULTS WILL BE SENT TO YOUR DOCTOR WITHIN 2-4 WEEKS FROM SAMPLE RECEIPT

MORE **QUESTIONS**?

If you have additional questions or concerns, please ask your doctor. You can also contact us:

Online Pharmacy 4U
Goods in/out Offices:
Unit 2 Mansfield Woodhouse,
Station Gateway
Signal Way "off Debdale Lane"
Mansfield Woodhouse
Nottingham
NG19 9Qh.

Registered Head Office:
20-22 Wenlock Road,
London
N1 7GU.

01158 823 382
genetics@online-pharmacy4u.co.uk

NIPD GENETICS
A MEDICOVER COMPANY

Evartia®

metabolic test

Answers through genetic metabolic testing

SAFE | SENSITIVE | RELIABLE

WHAT IS **Evartia**?

Evartia is a new genetic test that detects genetic mutations (changes) that cause **inherited metabolic diseases** in people.

People with inherited metabolic diseases can have a **range of symptoms**, with **variable expressivity** and **age of onset**. Symptoms can manifest shortly after birth or at infancy, childhood, adolescence or adulthood. Symptoms can also occur suddenly due to specific foods or medications, dehydration, illnesses or other factors. With Evartia, if you have an inherited metabolic disorder, detecting and managing it early can **prevent or reduce symptoms**, **avoid chronic health consequences** and **improve your quality of life**.

HOW DOES **Evartia** HELP ME?

Evartia can help you identify:

- What disease you have
- What is your prognosis (*how the disease will progress based on the specific mutation you have*)
- What is the best treatment and clinical management for you
- What complications you should be aware of
- How it will affect your life
- Who in your family should be tested
- Who can help you (*specialized doctors, dieticians, support groups*)

WHO IS **Evartia** FOR?

- Individuals with common symptoms of a metabolic disease
- Individuals with a spectrum of overlapping symptoms that vary in age of onset and severity
- Individuals with neurological symptoms that haven't improved with routine therapies
- Individuals with a family history of a metabolic disease

WHY ASK MY DOCTOR ABOUT **Evartia**?

Inherited metabolic diseases may be individually rare, but collectively they are numerous. As they have **variable** symptoms, detecting an inherited metabolic disorder in an individual is not always straightforward.

The usual pathway of identifying a metabolic disease involves lengthy and complicated biochemical or enzymatic tests. This may include testing a variety of specimen types, such as blood, urine, sweat, and even undergoing invasive brain or muscle tissue biopsy. Such tests rely on reference intervals which may not always be suitable for the individual's age, gender or current state of health – whether they are in the middle of a metabolic episode or not. Often, they also require a genetic test to confirm the mutation.

With Evartia, you are one **simple**, **painless** and **reliable** test away from taking **informed** and **accurate decisions** on the **best clinical management for you**.

WHY CHOOSE **Evartia**?

- **223 GENES** Tests for disease-causing genetic changes that cause serious health problems
- Identifies the best therapy for you that can reduce or improve symptoms and chronic complications
- Painless and non-invasive collection method
- Reduces the need for lengthy, complicated and invasive procedures
- Utilizes superior technology that yields accurate results

WHAT DOES **Evartia** TEST FOR?

Evartia metabolic test covers the major categories of inherited metabolic diseases and is offered as a single, detailed panel of **223 genes** involved in metabolic pathways.

Evartia tests for autosomal recessive, autosomal dominant and X-linked disorders. These may be inherited from carrier parents, who are unaware of their carrier status, to their children, or without a known or prior family history of that disorder. Additionally, this means that if you are affected by a metabolic disease, some of your family members may also benefit from metabolic testing. **Early detection** has a higher potential to reduce symptoms or minimize their severity, **improving the quality of life** of the person with the metabolic disease.

Disease categories tested by **Evartia** metabolic panel

- 3-Methylglutaconic aciduria
- Congenital disorders of gycosylation
- Glycine encephalopathy
- Hyperinsulinemic hypoglycemia
- Lysosomal storage disorders
- Methylmalonic acidemia
- Urea cycle disorders
- Cerebral creatine deficiency
- Fatty acid oxidation disorders
- Glycogen storage diseases
- Hyperphenylalaninemia
- Maple syrup urine disease and DLD deficiency
- Peroxisomal disorders

MKT-PSN-EVR-PT-EN-V1.2-P4U-1