Ask your healthcare provider about test options or connect with us:

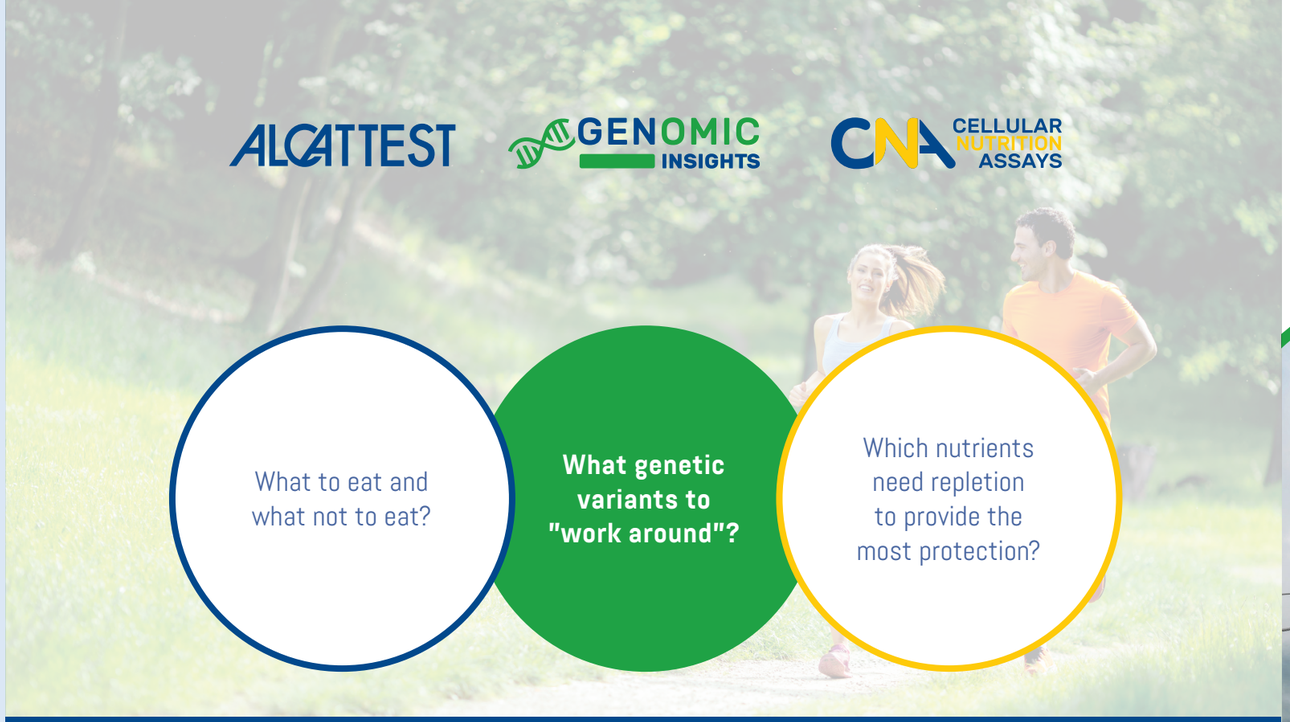
1 800 US ALCAT

(1.800.872.5228)

Information: info@cellsciencesystems.com
Nutrition: hello@previmedica.com

Cell Science Systems, Corp.
852 South Military Trail
Deerfield Beach, FL 33442

Practice stamp



Test don't guess!

Functional Laboratory Testing aimed at personalized nutrition and prevention of chronic inflammation and autoimmune disease.

Cell Science Systems Corp. (CSS) is a specialty clinical laboratory that develops and performs testing in immunology, serology, cell biology, and other specialties supporting the personalized treatment and prevention of chronic disease. CSS operates a CLIA-certified laboratory and is an FDA inspected and registered, cGMP medical device manufacturer meeting ISO EN13485:2012 standards.

» I suffered from cardiovascular symptoms and wasn't doing well with medications. I suffered also from strong fatigue, mood swings and depression, and was overweight. The Methyl Detox Profile identified high homocysteine and mutations of the MTHFR, COMT, and AHCY genes. The nutrient test showed exactly the right forms of B vitamins I should take and some beneficial antioxidants. I am feeling so much better! I lost weight, energy is great, and I reduced medication which I tolerate better. I can finally thrive again! « (Tony)

You're unique. Eat like it.

Functional genetics - important metabolic pathways, detoxification, and hormone balance

Critical genes essential for basic functions

Methyl groups are biochemical on-and-off switches of gene expression. They control enzymatic reactions, impact mood and neurotransmitter balance, protect against chronic degenerative disease by reducing inflammatory processes, transform toxins into forms that are readily excreted, impact tissue healing, and protect cells from oxidative stress.

- **Optimized metabolism**
- **Effective detoxification**
- **Improved energy and performance**
- **Disease prevention**

Who may benefit from this test?

Compromised methylation could be a factor

Individuals experiencing the following diagnoses/symptoms:

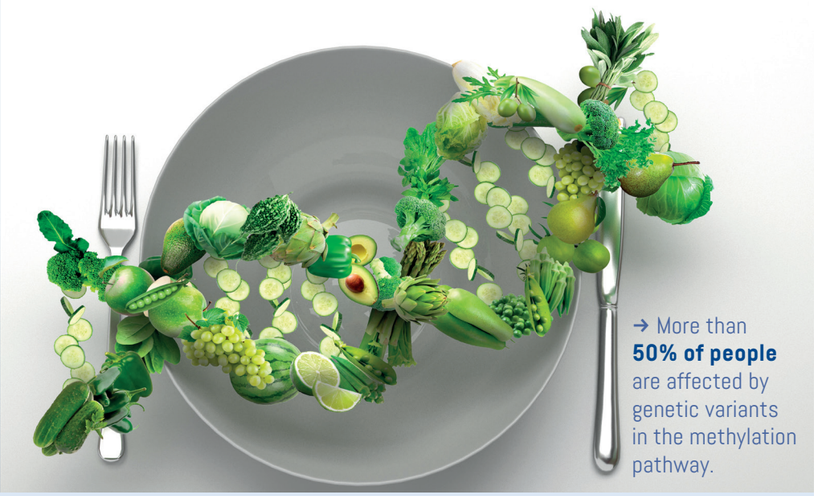
- Fatigue
- Depression, anxiety, panic, insomnia, mood swings
- Cardiovascular disease
- Cancer
- Musculoskeletal disorders
- Weight difficulties, metabolic syndrome, diabetes
- Signs of poor detoxification

Test components

→ 5 genes (+ add homocysteine)

Methylation can play an important role in many chronic diseases.

By understanding your genetics you can prevent and address these conditions with the right nutrition.



→ More than **50% of people** are affected by genetic variants in the methylation pathway.

→ MTHFR

Initiator of methylation

The purpose of the MTHFR gene is to encode for the MTHFR enzyme which is the driver of the production of folate.

Variants in the genes involved in methylation can impact the development of chronic disease. Nutrition intervention supports methylation and promotion of optimal health.

→ COMT

Restoring hormone balance

By metabolizing stress hormones and neutrotransmitters, the COMT gene is directly responsible for bringing your heartbeat down to normal levels and restoring a sense of balance both to your physiological and your psychological self.

→ MTR

Amino acid balance

The MTR gene provides instructions for making an enzyme called methionine synthase which plays a role in processing amino acids, the building blocks of proteins. Methionine synthase converts homocysteine to methionine using methylated vitamin B12. Inflammation and elevated homocysteine levels can increase the risk of CVD.

→ AHCY

Maintainer of methylation

AHCY is the only enzyme known and crucial to convert S-Adenosylhomocysteine (AdoHcy) to homocysteine and adenine to maintain optimal methylation potential. Studies show a link between variants in this gene with poor methylation potential and severe myopathies, developmental delays and hypermethioninemia.

→ MTRR

Protein processing

The MTRR gene codes for the important enzyme, methionine synthase reductase (MSR) which is required for the proper function of methionine synthase (see MTR). Both genes act together to convert homocysteine to methionine. Variants can be involved with the development of cancers, Parkinson's disease, depression, hypertension and many others.

add Homocysteine (amino acid)

Biomarker for methylation status

High homocysteine levels may indicate an insufficiency in vitamin B6, B12, and/or folate. Elevated homocysteine levels can contribute to arterial damage and blood clots in your blood vessels and are well known risk factors for chronic disease, particularly cardiovascular, diabetes and neurodegenerative disorders.

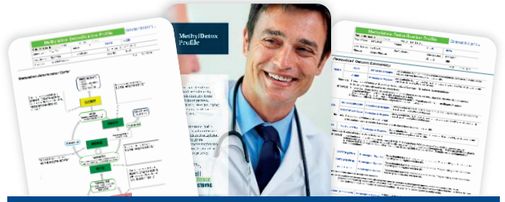
Why to get tested

Check your genes

Vitamins, minerals, nutrients, coenzymes, and botanicals can only do their job as desired on the basis of functioning methylation. Essential processes of the body to maintain health and self-healing are controlled by methyl groups. If methyl groups are in short supply, the body has difficulty controlling these functions. You become "out of balance".

Get tested!

- Ask your practitioner for a test today
- A simple swab sample or blood draw is needed.
- Get your test results after 5-7 days



YOUR results are easy to understand

Identifying your genetic variants can help determine what nutrient support you need. Test results include expert clinician commentaries and include personalized recommendations for diet, nutrient supplementation, and IV nutrient therapy.

We highly recommend that this test be used as part of a comprehensive nutritional assessment with individualized guidance from a qualified nutrition practitioner. If your practitioner does not provide nutrition therapy, you are welcome to arrange consultations with a PreviMedica nutritionist. Contact us at hello@previmedica.com