

AMINO ACIDS (plasma)

Scientific research has demonstrated that conditions as varied as chemical sensitivities, cardiovascular disease, macular degeneration, bone disorders and insomnia are associated with amino acid imbalances. The raft of health conditions associated with amino acid metabolism is a result of the countless physiological processes that these molecules are involved in. Amino acids are necessary for production of neurotransmitters, hormones, nitric oxide, urea, antioxidants, connective tissue and ATP. Amino acid testing is therefore a powerful tool that practitioners can utilise to not only determine underlying causes of disease but to optimise the health of their patients.

The plasma amino acids test shows the level on amino acids in the blood as building blocks of protein, be it structural, transport or storage. Plasma levels of amino acids reveal information on long-term nutritional status directly at supply line from tissue stores.

Amino Acids – Functions, Imbalances and Testing

Amino acids play central roles both as building blocks of proteins and as intermediates in metabolism. They not only catalyse all (or most) of the reactions in living cells, they control virtually all cellular processes. Deficiencies and excesses of these vital molecules therefore lead to physiological impairment which is exhibited in a wide variety of clinical symptoms and conditions as varied as chemical sensitivities, cardiovascular disease, macular degeneration, bone disorders and insomnia are associated with amino acid imbalances.

NutriPATH offers comprehensive amino acid testing in two mediums - plasma and urine. They measure the essential (or semi-essential) amino acids required by humans, non-essential amino acids, and other important metabolites. Essential amino acids cannot be synthesised in the body and therefore dietary consumption of these molecules is required. On the other hand semi-essential (or conditionally essential) amino acids must be supplied exogenously to specific populations, such as infants, that cannot synthesise them in adequate amounts.

Amino acid analysis offers essential clinical data on metabolic, neurological, nutritional and inflammation disorders. The analysis of 37 amino acids provides a detailed explanation of consequences of nutritional abnormalities and health consequences.

SYMPTOMS AND CONDITIONS ASSOCIATED WITH AMINO ACID DEFICIENCY

Allergies	Hypoglycemia
Anxiety & panic attacks	Inflammatory conditions
Arthritis	Insomnia
Bile insufficiency	Low libido
Cardiovascular disease	Macular degeneration
Chemical exposure and sensitivities	Neurological conditions (e.g. autism, dementia, histapenia, schizophrenia)
Connective tissue and bone disorders	Migraines
Depression	Muscle atrophy & weakness
Diabetes or insulin dysregulation	Negative nitrogen balance
Eating disorders	Poor wound healing
Fatigue	Thyroid conditions
Hypertension	Viral infection (e.g. cold sores, shingles)

AMINO ACIDS (plasma) [Test code: 5003]

- ❖ Alanine, α -Aminoadipic acid, α -Aminobutyric acid, Arginine, Asparagine, Aspartic acid, β -Alanine, β -Aminoisobutyric acid, Carnosine, Citrulline, Cysteine, Cysteine clearance, Cysthathionine, GABA, Glutamate, Glutamine, Glycine, Histidine, 1-methyl Histidine, 3-methyl Histidine, Hydroxyproline, Isoleucine, Leucine, Lysine, Methionine, Ornithine, Phenylalanine, Phosphoserine, Phosphorylethanolamine, Proline, hydroxy Proline, Serine, Taurine, Threonine, Tryptophan, Tyrosine, Valine

Other amino acids test available

- **Amino Acids (urine) [5004]:** Alanine, α -Aminoadipic acid, α -Aminobutyric acid, Arginine, Asparagine, Aspartic acid, β -Alanine, β -Aminoisobutyric acid, Carnosine, Citrulline, Cysteine, Cysteine clearance, Cysthathionine, GABA, Glutamate, Glutamine, Glycine, Histidine, 1-methyl Histidine, 3-methyl Histidine, Hydroxyproline, Isoleucine, Leucine, Lysine, Methionine, Ornithine, Phenylalanine, Phosphoserine, Phosphorylethanolamine, Proline, hydroxy Proline, Serine, Taurine, Threonine, Tryptophan, Tyrosine, Valine

How to order a test kit:

To order a test kit simply request the test name and/or test code on a NutriPATH request form and have the patient phone NutriPATH Customer Service on 1300 688 522.



Phone **1300 688 522** for further details
www.nutripath.com.au