



## AMINO ACIDS (PLASMA) - Test Code 5004



Turnaround Time: Batch testing



Specimen Type: 1x EDTA  
Blood

### Description

Amino acids play central roles both as building blocks of proteins and as intermediates in metabolism. Amino Acids not only catalyse all (or most) of the reactions in living cells, they control virtually all cellular processes (Church et al., 2020). 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 (Hu et al., 2023).

The Amino Acid profile tests 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 is required (Church et al., 2023). On the other hand, non-essential amino acids are produced by the body and are not necessary to be consumed through food sources.

Amino acid analysis offers essential clinical data on metabolic, neurological, nutritional and inflammatory disorders.

### Whats included?

- 40 Amino Acids covering: Nutritionally & Essential Amino Acids, Nonessential Protein Amino Acids, Intermediary Metabolites, Dietary Peptide Related Markers and Functional Ratios.

### Conditions and Symptoms

- Poor wound healing
- Fatigue and Insomnia
- Muscle weakness
- Neurological conditions
- Eating disorders
- Viral infections

### Complementary Testing

- Complete Microbiome Mapping (Test code 2206)
- Organic Acids- Metabolomic Mapping (Test code 4041)

### Accreditations Include:

- NATA ISO 15189 – Requirements for Quality and Competence in Medical Laboratories\*
- CLIA – Clinical Laboratories Improvement Amendments\*



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\*See NATA and CLIA website for further details