



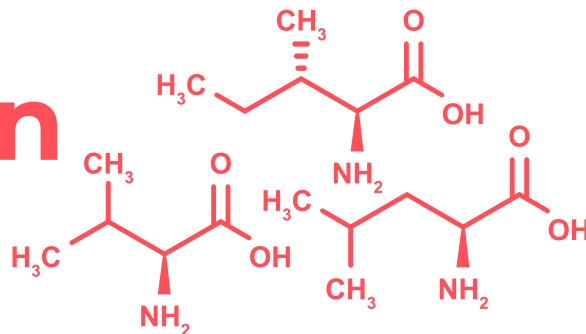
Branched-Chain Amino Acids

Branched-chain amino acids (BCAAs; leucine, isoleucine, and valine) are essential amino acids with protein anabolic properties that have been studied in a number of muscle wasting disorders and in muscle recovery post exercise. More recently, BCAAs have been proposed as biomarkers in a variety of conditions including insulin resistance, type 2 diabetes, risk of cardiovascular disease, chronic kidney disease and ischemic stroke, muscle wasting, liver cirrhosis, sepsis, and cancer. High levels of plasma BCAAs have been found to be more predictive than genetic data to identify individuals at risk of cardiometabolic disease and type 2 diabetes, and to predict populations at risk for mortality from ischemic heart disease.

Applications

- ▶ Cell culture bioprocessing
- ▶ Myopathies & mitochondrial function
- ▶ Diabetes
- ▶ Cardiovascular diseases
- ▶ Health & wellness
- ▶ Basic nutrition research

Metabolon



Panel	LLOQ
	Plasma
Leucine	2.00 µg/mL
Isoleucine	1.25 µg/mL
Valine	3.00 µg/mL

The panel is for non-GxP testing and is not for diagnostic use

Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 UHPLC/Sciex QTrap 5500)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	100 - 150 µL
Others on request	

Contact us to get started
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