



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Pantothenic Acid (Vitamin B5) by UPLC-MS/MS

Method Number: ISO-20639:2015

Scope of Application: Infant formula (including HA products), infant cereals, medical foods, breakfast cereals, cereal bars, cocoa beverages, healthcare products, premixes, milk based raw materials, and gummy-based vitamins.

Description: This method determines only free Pantothenic acid. Pantothenic acid is extracted using a 0.4 mol/l ammonium acetate buffer solution. After filtration, the final solution is subjected to ultrahigh performance liquid chromatography tandem mass spectrometry (UPLC-MS/MS).

Sample Weight Required: 50 g

Method Reference: Official Methods of Analysis (2016) 20th Ed., AOAC International, Gaithersburg, MD, Method 2012.16.

Analytical Platform: UPLC-MS/MS

Special Information: Provide Certificate of Analysis (COA) or estimated levels for premixes. Form of vitamin must be disclosed in the specification (Calcium pantothenate, Pantothenic acid).

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Pantothenic acid	Vitamin B5	mg/100 g	0.1	20% for premixes 15% for all other matrixes