



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Nicotinamide Riboside and/or beta-hydroxybutyrate in Clinical Nutritional Products by HILIC-MS/MS

Method Number: NQA-56.0003

Scope of Application: Nutrition clinical products – i.e., Boost and powder supplements.

Description: The method consists of: Extraction of Nicotinamide Riboside (NR) & Beta-hydroxybutyrate (BHB) with water followed by addition of internal standard. Separation and quantification is done by using a Hydrophilic Interaction Liquid Chromatography coupled to Tandem Mass Spectrometry (HILIC-MS/MS).

Sample Weight Required: 50 g

Analytical Platform: HILIC – LC/MS/MS

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Nicotinamide Riboside	NR	mg/100 g	20 for liquids 200 for powders	17%
Beta-hydroxybutyrate	BHB	g/100 g	2 for liquids 5 for powders	10%