



NQAC

Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** Vitamin C Determination by HPLC

**Method Number:** NQA-00.3106

**Scope of Application:** Vitamin premixes, fruits, juice products, infant formula, enteral feeding products, frozen dinners, gummy-based vitamins and food products in general.

**Description:** Extraction of ascorbic acid with meta-phosphoric acid in the presence of dithiothreitol. Dithiothreitol is added to keep ascorbic acid in its reduced form and to convert any dehydroascorbic acid into ascorbic acid. Filtration then separation using an isocratic reverse phase HPLC and detection by UV at 254 nm.

**Sample Weight Required:** 50 g

**Analytical Platform:** HPLC

**Special Information:** Liquid samples need to be analyzed from an original container. Provide Certificate of Analysis (COA) or estimated levels for premixes.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Vitamin C	Ascorbic acid	mg/100 g	0.5	15%