



NQAC

Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** Vitamin A and E Determination by UPC2MSMS - Saponification

**Method Number:** NQA-00.608\_V1

**Scope of Application:** Cereals, healthcare nutritional products and culinary samples for Vitamin A. Chocolate powder samples (CBE/Nutren Beauty) for vitamin A and E. Oils for vitamin E only.

**Description:** Samples are analyzed by LI-00.608 WI but require an alternative step during sample preparation that includes a saponification. The method can't be used for the determination of vitamin K and/or D on these products.

The sample preparation is identical to ISO 20633:2015 for the determination of vitamins A and E in infant formula and adult/pediatric nutritionals. Separation and detection are achieved by UHPSFC-MS/MS.

Reported units are: Vitamin A as  $\mu\text{g}$  RAE/100g, Vitamin E as mg/100 g

**Sample Weight Required:** 50 g

**Analytical Platform:** UHPSFC-MS/MS

**Special Information:** This is an alternative method for the determination of vitamin A and E when interferences were noted under LI-00.608 WI and ISO-20633:2015.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Vitamin A (retinol)		$\mu\text{g}$ RAE/100 g	3.0	<20%
Vitamin E	Alpha tocopherol	mg/100 g	0.1	<20%