



NQAC

Nestlé Quality Assurance Center  
Dublin

## Technical Datasheet

**Analysis Name:** Inositol by Gas Chromatography

**Method Number:** LI-00.684

**Scope of Application:** This method describes a GC method for determining total Inositol (bound and unbound) in infant formula, milk powders, health care products, soya-based and baby food products. Also validated is pea protein, culinary products, and low-level premixes. (Phytic acid is not determined with this method.)

**Description:** Bound inositol is released by hydrolysis of the food product with dilute Hydrochloric acid. Inositol is then derivatized to form its trimethylsilyl ether and analyzed by capillary column gas chromatography with flame ionization detection.

**Sample Weight Required:** 50 g

**Method Reference:** Tagliaferri, E G. et al., J. Chromatogr. A, 879 (2000) 129-135: Ion chromatographic determination of inositol in infant formulae and clinical products for enteral feeding

**Analytical Platform:** Gas Chromatography

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Inositol		mg/100 g	1 mg/100 g	25%