



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Four PFAS in Infant Foods by LC-MS/MS

Method Number: LI-00.095

Scope of Application: The method is applicable for baby food (in jar and pouch), liquid and powdered milk-based infant formula, infant biscuits and infant cereals. All other sample matrices logged for this test outside of this scope will automatically be logged for NQA-54.0013 instead.

Description: Description of an in-house method for the quantitative determination of 4 perfluoroalkyl substances (PFAS), namely PFOA, PFNA, PFOS, and PFHxS, by isotope dilution liquid chromatography tandem mass spectrometry (LC-MS/MS).

Sample Weight Required: 100 g or 100 mL

Analytical Platform: LC-MS/MS

Sample Submission Information: Avoid use of Teflon containing coated equipment, LDPE bottles/materials and glass containers. Avoid use of markers/waterproof pens, post-it notes, blue ice or chemical packs, and aluminum foil. HDPE, PET, PP, or PE containers are recommended. Samples should be stored in airtight containers and protected from light.

Special Information: Samples that are logged outside of the scope of this method will automatically move to the screen (NQA-54.0013) for quantitation and analysis. All analytes are calculated as the sum of all linear and branched isomers of each compound quantitated using the linear standard of each. The presence of the branched isomers are identified and confirmed by retention time of a mixed standard (branched and linear isomers).

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
PFOA	Perfluorooctanoic acid	µg/kg	0.001	32%
PFNA	Perfluorononanoic acid	µg/kg	0.001	42%
PFOS	Perfluorooctane sulfonic acid	µg/kg	0.002	25%
PFHxS	Perfluorohexane sulfonic acid	µg/kg	0.004	25%