



Technical Datasheet

Analysis Name: SHORT CHAIN PFAS IN FOOD BY LC-MS/MS

Method Number: LI-00.098

Scope of Application: Baby food (in jar and pouch), liquid and powdered infant formula, infant biscuits and infant cereals, milk-based ingredients and coffee samples

Description: An in-house method for the quantitative determination of ten short chain perfluoroalkyl substances (PFAS) and monofluoroacetic acid (MFA), by isotope dilution liquid chromatography tandem mass spectrometry (LC MS/MS).

Sample Weight Required: 100 g or 100 mL

Method Reference: In-house method

Analytical Platform: LC-MS/MS

Special Information: Avoid any sample contact with fluoropolymer materials (e.g., PTFE or Polyvinylidene Fluoride (PVDF)) or materials known to contain residues of PFAS (e.g., low-density polyethylene (LDPE)).

Analyte Reported	Alias	CAS number	Reproducibility
TFA	Trifluoroacetic acid	76-05-1	25 %
DFA*	Difluoroacetic acid	381-73-7	25 %
PFPrA	Perfluoropropanoic acid	422-64-0	25 %
TFMS	Trifluoromethanesulfonic acid	1493-13-6	25 %
PFEtS	Perfluoroethanesulfonic acid	354-88-1	25 %
PFPrS	perfluoro-1-propanesulfonate	359868-82-9	25 %
Hexafluoroglutaric acid	N/A	376-73-8	25 %
Perfluorosuberic acid	N/A	678-45-5	25 %
PFBPA	Perfluorobutylphosphonic acid	52299-24-8	25 %
PFMOAA*	Perfluoro-2-methoxyacetic acid	674-13-5	25 %
MFA	Monofluoroacetic acid	144-49-0	25 %

**Due to limits of the analytical technology, these analyte sare reported by the quantitated value, but advised for any detections to be confirmed via HRMS.*



NQAC

Nestlé Quality Assurance Center
Dublin

Matrix	Analyte	Working range (µg/kg)	
		Min (LOQ)	Max
Baby food	All short chain PFAS except MFA	20	250
	MFA	1000	5000
Infant formulae Infant cereals	All short chain PFAS except MFA	40	250
	MFA	2000	6000
Milk-based products	All short chain PFAS except MFA	50	500
	MFA	3000	10000
Coffee	All short chain PFAS except MFA	100	500
	MFA	4000	12000