NQAC
Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Glyphosate, AMPA and Glufosinate (FMOC)

Method Number: LI-00.039

Scope of Application: Cereals (high starch content), fruits and vegetable purees (high water content), fruit juice concentrate, dry fruits and honey (high sugar content) and powdered milk- and soy-based infant formulas. Not suitable to determine gum-based, crushed garlic, soy lecithin, and dried/powder red pepper samples.

Additional matrix types may be analyzed; however, if they do not meet the acceptance criteria established by the matrices that are validated then the matrix will be considered not compatible with this method or increased QL's may be reported.

Description: An in-house method for quantitative determination of Glyphosate, Aminomethylphosphonic acid (AMPA) and Glufosinate by liquid-chromatography tandem mass-spectrometry (LC-MS/MS) after FMOC-derivatization.

"This method uses a contaminant confirmation process to confirm any detections above the Code of Federal Regulation limits. A retest will be automatically initiated for any such detections and a new due date will be communicated."

Sample Weight Required: 100 g

Analytical Platform: LC-MS/MS

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Glyphosate		mg/kg	0.010 (0.050 for dairy- and soy-based infant formula)	<20%
AMPA		mg/kg	0.010 (0.050 for dairy- and soy-based infant formula)	<20%

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Glufosinate		mg/kg	0.010 (0.050 for dairy- and soy-based infant formula)	<20%

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