

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.

Note: The method reports the compound Glufosinate; however this compound alone does not meet the residue definition of Glufosinate in the U.S. per 40 CFR 180.473.

The residue definition as defined in this regulation is the sum of glufosinate and its metabolites, NAG (2-(acetylamino)-4-(hydroxymethyl phosphinyl) butanoic acid), and MPP (3-(hydroxymethylphosphinyl) propanoic acid), expressed as glufosinate equivalents. If analysis meeting the full residue definition is required, contact NQAC Customer Service for options.

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



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