

Phenolic and Phenoxy Acetic herbicides (acids & salts, not esters) Technical Data Sheet

Analytes:	(40+ analytes)
Scope:	Agricultural matrices including: Fruits, Vegetables, Grains, Juice, low moisture crops, soil, water. For other matrix types, please inquire.
Method Description:	The analyte scope of this method includes herbicide salts and free acids. A homogenized portion of sample is extracted in a weak ammonia solution. An aliquot is cleaned using mixed-mode anion exchange, solid phase extraction (SPE) to isolate the compound(s) of interest. The cleaned extract concentrated and analyzed using reverse-phase ultra-performance liquid chromatography, tandem mass-spectroscopy (UPLC-MS/MS). Analyte quantification uses a multi-level matrix calibration. Batch QC includes a matrix spike fortified with the tested analytes. Multiple MS-MS (MRM) transitions or alternate chromatography may be used for result confirmation.
Limit of Detection:	0.001 - 0.05 ppm (ug/g)
Sample Size Requirements:	A minimum of 50 grams of homogeneous sample is needed for analysis. If the sample will be received without homogenization 500 grams will be required to allow for processing and additional fees will be assessed.
Turn Around Time:	7 business days; Rush service (3-5 days) is available. Turnaround times may be subject to change dependant on analytes detected, additional verification may be required.
Method Reference(s):	OMIC USA, internally developed method
Additional Information:	The LOQs may be raised due to matrix interferences; if specific LOQs are required, please make arrangements prior to sample submission.