

Certificate of Analysis

COA4V1.4

Sample Description: Herbicide Components
Client: Contact Organics

Sample Mass: 1 Qt Sampling date/time: NA

| Samples: | | | | Results: | | |
|------------|------------------------------|---------------------------|-------|-------------------|--------------|------------------|
| Sample ID# | Sample Description/ UPC Code | Lot # and Expiration Date | Mass | Glyphosate (ng/g) | AMPA (ng/g) | Glyphosate Level |
| | | | | | | |
| S9533 | Contact Organic Boost | COT2020L03001 | 1 Qt. | Not Detected | Not Detected | Not Detected |
| | | | | | | |
| S9534 | Contact Organic Terminator 2 | COT2020L09002 | 1 Qt. | Not Detected | Not Detected | Not Detected |

ISO 17025-Accredited HRI Method TM #8 Glyphosate and AMPA Detection by Mass Spectometry

Glyphosate LOQ = 0.05 ppb, LOD = 0.02 ppbAMPA LOQ = 0.05 ppb, LOD = 0.013 ppb Terms: "Trace" is between LOD and LOQ
"Not Detected" is less than LOD

Report Date:

Sample No:

May 2, 2022

S9533, S9534

Sample preparation employed a modification of the method described in Chamkasem, Narong, Cynthia Morris, and Tiffany Harmon. 2016. "Direct Determination of Glyphosate, Glufosinate, and AMPA in Milk by Liquid Chromatography/tandem Mass Spectrometry." *Journal of Regulatory Science* 3 (2): 20–26.

LC-MS/MS analysis employed a modification of the method described in Jensen, Pamela K., Chad E. Wujcik, Michelle K. McGuire, and Mark A. McGuire. 2016. "Validation of Reliable and Selective Methods for Direct Determination of Glyphosate and Aminomethylphosphonic Acid in Milk and Urine Using LC-MS/MS." Journal of Environmental Science and Health, Part B 51 (4): 254–59. doi:10.1080/03601234.2015.1120619.

Limit of Quantitation (LOQ) and Limit of Detection (LOD) are sub-part per billion for this method and are determined for each sample. All values are based on equipment and reference materials that are traceable to ISO 17025 compliant calibrations. Measurement uncertainties are calculated and are available upon request. Results apply to the sample as received and relate only to the sample which is tested on an "as is" basis.

Total Effective Glyphosate Level calculated according to Food and Agriculture Organization (FAO) method where total glyphosate residue is the sum of the weight of glyphosate $+ 1.5 \times$ the weight of its metabolite AMPA.

Released on Behalf of HRI Laboratories by

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