



Certificate of Analysis

Client: Contact Organic Certificate of Analysis # COA 2022-765
Sample Description: Herbicide Components Report Date 5/30/2022
Test Date: 5/27/2022

Samples:				Results:			
Sample ID#	Sample Description/ UPC Code	Lot #	Sample Volume / Mass	Paraquat (ng/g)	Diquat (ng/g)	Chlormequat (ng/g)	Glufosinate (ng/g)
S9533	Contact Organic Boost	COT2020L03001	1 Qt.	ND	ND	ND	ND
S9534	Contact Organic Weed Terminator 20	COT2020L09002	1 Qt.	ND	ND	ND	ND

Methods:
Sample Analysis: Fit for Purpose HRI Method "Obelisc 3 Quats+Gluf Detection by LC-MS/MS"
Sample preparation employed a modification of the method described in: Dasharath Oulkar, Raviraj Shinde, Zareen Khan and Kaushik Banerjee. 2019 "High throughput residue analysis of paraquat and diquat involving hydrophilic interaction liquid chromatographic separation and mass spectrometric determination." Food Additives & Contaminants: Part A, DOI: 10.1080/19440049.2018.1547424.
LC-MS/MS analysis employed a modification of the method described in Anna Baue, Jens Luetjohann, Sascha Rohn, Jürgen Kuballa, Eckard Jantzen. 2018. "Development of an LC-MS/MS Method for Simultaneous Determination of the Quaternary Ammonium Herbicides Paraquat, Diquat, Chlormequat, and Mepiquat in Plant-Derived Commodities." Food Analytical Methods, <https://doi.org/10.1007/s12161-018-1201-6>
Limit of Quantitation (LOQ) for this method is 10 ng/g.
ND = Not detected
D = Detected, but below the limit of quantification

Released on Behalf of Health Research Institute

John Fagan, Ph.D, Chief Scientific Officer

ISO/IEC 17025:2017
Accreditation # 92657

