



Certificate of Analysis

Sample Description: orange juice
 Client: Moms Across America Mission Viejo
 Sample Mass: various

Sample Numbers: S0003709-3714
 Receipt Date: 2018-08-09
 Test Date: 2018-08-24
 Shipment Temp: +4°C
 Storage Temp: -20°C

Samples:				Results:		
Sample ID#	Sample Description/ UPC Code	Lot # and Expiration Date	Sample volume	Glyphosate (ng/mL)	AMPA (ng/mL)	Effective Glyphosate Level (ng/mL)
S0003709	Stater Bros / Orange Juice /From Concentrate / 074175018054	Best by 27 Aug 2018 F4 PLT#06-10 22:12	473 ml	2.24	0.62	3.17
S0003710	Minute Maid / Premium Original 100 % Orange Juice / From Concentrate / 025000063213	Best before Aug 2018 WAVE 0044	295 ml	3.79	2.56	7.63
S0003711	Signature Farms / 100 % Premium Pasteurized Orange Juice / Not from Concentrate / 021130072880	Best before Sept 19 18 BA15:45 S1251	355 ml	2.18	0.54	2.99
S0003712	Florida's Natural / 100% Premium Florida Orange Juice Pasteurized / Not from Concentrate / Non GMO / 016300165684	Sep 07 18 02:24 9 8	1.75 L	4.78	6.42	14.42
S0003713	Tropicana / Pure Premium 100% Orange Juice / Never from Concentrate / Non GMO Project Verified / 048500301029	Sep 20 18 336 N 1244	1.75 L	5.03	8.09	17.16

S0003714	Kirkland Signature / Orange Juice / Pasteurized/ Not from Concentrate / 096619416417	Best by Sept 20 2018 SI 13:20 208	1.7 L	2.69	0.46	3.38
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Methods

Sample Analysis: HRI TM #8 "Glyphosate and AMPA Detection by LC-MS/MS"

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.

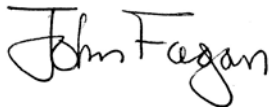
Limit of Quantitation (LOQ) and Limit of Detection (LOD) are sub-part per billion for this method and are determined for each sample.

D = Detected; result was above the limit of detection but not quantifiable

ND = Not Detected; result was below the limit of detection

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 × the weight of its metabolite AMPA.

Released on Behalf of HRI Laboratories by



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