

Report Number

S0003424- 20180814

Report Date 2018-08-14

Certificate of Analysis

Sample Description: hummus

Moms Across America Mission Viejo

Sample Mass: various

Client:

Sample Numbers: see below

Receipt Date: 2018-06-23 Test Date: 2018-08-10

Shipment Temp: +4°C Storage Temp: -20°C

Samples:				Results:			
Sample ID#	Sample Description/ UPC Code	Lot # and Expiration Date	Sample mass (g)	Glyphosate (ng/g)	AMPA (ng/g)	Effective Glyphosate Level (ng/g)	
-	Kirkland Signature /						
	Organic Hummus/ USDA	Best Before					
	Organic /	5/19/2018(50C					
S0003424	096619462674	18) 19:34 L101	68 g	0.86	ND	0.86	
\$0003425	Trader Joe's / Hummus Dip / 00204118	Use by 04/26/18 10:36 C	454 g	30.19	0.32	30.67	
30003423	DIP / 00204116	14 057 Best	454 g	50.19	0.32	30.07	
	Sabra / Class Hummus / Non-GMO Gluten Free /	Before 2018					
S0003426	040822011143	02:06:96	283 g	14.35	D	14.35	
	Cedar's / Original Hommus/ Non GMO verified /	Sell by Jun 20 2018 (41C18)					
S0003427	044115008018	18:52 L4	227 g	8.95	D	8.95	
\$0003428	Cedar's / Original Hommus / Organic / USDA Organic / 044115448012	Sell by Jun 27 2018 (91C18) 20:33 L4	227 g	9.73	ND	9.73	
30003420	Simply Balanced /	20.55 L4	227 8	3.73	NO	3.73	
	Organic / Traditional Hummus / USDA Organic /	Best Used By 5/22/2018 80795505A					
S0003429	085239014868	0828	283 g	0.60	ND	0.60	
50000430	Sadaf / Hummus / Traditional /	Use by 06/23/2018	222	10.55	0	40.60	
S0003430	052851626021	17:52	283 g	12.63	0.70	13.68	

S0003433	Avocado / 856500004013	05/12/18 Lot 031418	227 g	1.51	ND	1.51
	Hummus / Spicy	Best by				
	Hope / Organic					
S0003432	645136000267	11:37	340 g	D	ND	D
	Verified /	09 Sep 2018				
	Chickpeas / Non GMO					
	/ Made with Organic					
	Lilly's / Classic Hummus					
S0003431	040822344456	43249.88867	907 g	0.43	ND	0.43
	Hummus /					
	Roasted Pine Nut					
	Sabra / Organic / Simply					

Methods

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

<u>Sample preparation</u> 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.

<u>LC-MS/MS analysis</u> 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 $+ 1.5 \times$ the weight of its metabolite AMPA.

Released on Behalf of HRI Laboratories by

Dr. John Fagan, Sr. Scientist

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