Health Research Institute Laboratories

Report Number S0001828- 20171218
Report Date 2017-12-18

Certificate of Analysis

Sample Description: veggie burgers
Client: Moms Across America Mission Viejo
Sample Mass: various

Sample Numbers: S0001828, 1829, 1830, 1831
Receipt Date: 2017-09-26
Test Date: 2017-12-15
Shipment Temp: 0°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)**
S0001828, S0001829 S0001831	Conventional veggie burgers (3 pooled samples)	various	15 g of each sample, composited	19.49	21.80	52.20
S0001830	Organic veggie burger	N/A	15 g	3.27	Not Detected	3.27

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.

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.

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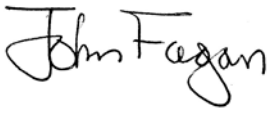

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