



Certificate of Analysis

Sample Description: oats and breakfast items  
Client: Rosemary and Palle Jepsen  
Sample Mass: various

Sample Numbers: S0003769 - 3779  
Receipt Date: 2018-08-27  
Test Date: 2018-10-05  
Shipment Temp: Ambient  
Storage Temp: Ambient

Samples:				Results:		
Sample ID#	Sample Description/ UPC Code	Lot # and Expiration Date	Sample Volume / Mass	Glyphosate (ng/g)	AMPA (ng/g)	Effective Glyphosate Level (ng/g)
S0003769	Kellogg No Added Sugar Granola with Apricot and Pumpkin Seeds.	N/A	apprx 100 g	499.90	ND	499.90
S0003770	Quaker / Oat So Simple / Original Microwaveable Oats	N/A	apprx 100 g	464.23	24.04	500.28
S0003771	Weetabix Oatibix 100% wholegrain oats	N/A	apprx 100 g	318.85	16.96	344.28
S0003772	Nestle Multigrain Cheerios: Whole Grain Oat Flour 29.6%, Whole Grain Wheat 29.6%, Whole Grain Barley Flour 17.9%, Whole Grain Corn Flour 2.1%, Whole Grain Rice Flour 2.1%	N/A	apprx 100 g	137.29	ND	137.29
S0003778	Organic granola sample from Vermont (raisins removed)	N/A	apprx 100 g	7.86	ND	7.86
S0003779	Organic bulk oats	N/A	apprx 100 g	740.74	34.09	791.88

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,  
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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.

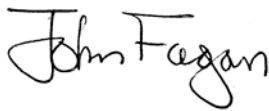
Limit of Quantitation (LOQ) and Limit of Detection (LOD) are sub-part per billion for this method and are determined for each sample.

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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