Health Research Institute Laboratories

Report Number S0001442- 20170804
Report Date 2017-08-04

Certificate of Analysis

Sample Description: ice cream from France and The Netherlands
Client: Organic Consumers Association
Sample Volume: various

Sample Numbers: S0001442-1456
Receipt Date: 2017-07-03
Test Date: 2017-08-03
Shipment Temp: 0°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)
S0001442	Ben and Jerry's Half Baked flavor ice cream/ 0076840620036	AMSTERDAM L71401K011/ 01:36:10 / 11/2018	500ml	1.07	Detected	1.07
S0001443	Ben and Jerry's Cookie Dough flavored ice cream / 8000920704998	AMSTERDAM L71441M011 / 11:49:14 / 11/2018	150 ml	Detected	Detected	Detected
S0001444	Ben and Jerry's Peanut Butter Cup flavor ice cream/ 8712100468117	AMSTERDAM L70112M011 / 12:43:38 / 07/2018	150 ml	Detected	0.12	0.18
S0001445	Ben and Jerry's Chocolate Fudge Brownie flavored ice cream / 8711200562718	MONTPELLIER, FRANCE L71161M011 / 01:58:22 / 10/2018	100 ml	0.29	Not detected	0.29
S0001446	Ben and Jerry's Cookie Dough flavored ice cream / 8711200564149	MONTPELLIER, FRANCE L70532M011 / 01:10:27 / 08/2018	100 ml	0.17	0.08	0.28

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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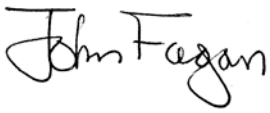

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