



Certificate of Analysis

Test Item:	AquaTru RO Water Filter	Sample Numbers:	S0004539, 4540
Client:	Water and Wellness	Receipt Date:	2019-01-09
Test description:	Effectiveness of glyphosate herbicide removal	Test Date:	2019-01-11

Samples:		Results:	
Sample ID#	Sample Description		Glyphosate (ng/ml)
S0004539	distilled water spiked with 1 ng/ml of glyphosate placed in reservoir of AquaTru RO Water Filter	BEFORE FILTRATION:	0.987
S0004540	water after filtration step performed by AquaTru RO Water filter	AFTER FILTRATION:	Not Detected
		% REDUCTION:	99%+

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) = 0.025 ng/ml      ng/ml may also be expressed as parts per billion (ppb)  
Limit of Detection (LOD) = 0.007 ng/ml

Not Detected indicates the result was less than the lowest possible amount of glyphosate detectable by the laboratory's instruments equal to 0.007 ng/ml. A level of 1 ng/ml was selected for input to the filter to simulate real-world conditions based upon actual measurements of municipal water supplies and wells known to contain glyphosate.

Released on Behalf of HRI Laboratories by

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