

TRILOGY REFERENCE MATERIAL CERTIFICATE



Certification Date: October 2015

Manufacture date: August 2015

Expiration Date: September 2020

Product Number: TR-F100, TR-F500, or TR-F1000

Lot # F-C-448

Sample Weight: 100, 500, or 1000 grams

Description: Corn Naturally Contaminated with Fumonisin

Analysis Compound	Detection Limits	Mean ppm	Mean SI units	1 sd range	2 sd range	3 sd range
Fumonisin B1	0.1 ppm	1.0	(mg/kg)	1.3 to 1.5	1.2 to 1.6	1.1 to 1.7
Fumonisin B2	0.1 ppm	0.3	(mg /kg)			
Fumonisin B3	0.1 ppm	0.1				

Total 1.4 ppm
Std dev 0.1 ppm
% CV or %RSD 9.1 %

ND=None Detected

Method Reference – AOAC 995.15

Expanded measurement of uncertainty (k=2) = 23.3% or ± 0.3 (ppm or mg /kg)

Range of product incorporating uncertainty ranges = 1.0 to 1.6 (ppm or mg /kg)

Storage conditions: Recommended Storage of this product between 4°C and 8°C.

To obtain the results above, 30 different extracts were prepared on a minimum of 6 different analyses dates. These were extracted with 3/1 MeOH/H₂O for 1 hour on an eberbach shaker. Samples were analyzed by HPLC using AOAC method 995.15. This result represents the results you would find from one laboratory performing one specific method repeatedly over the course of several weeks. The standard deviation ranges notes above represent results you would anticipate with 66% (1 sd range) , 95% (2 sd range) and 99% (3 sd range) confidence with the method specifics listed above. Additionally, uncertainty has been calculated and the range is also reported above. These ranges will allow you, the end user to determine which range best suits your individual requirements. Results of this sample may vary with methodology and extraction procedures utilized in your laboratory. These results relate only to the sample material listed above. The certified value is the best estimate of the true value based on these multiple analyses.

Certificate Approved by:

Julie Brunkhorst
Vice President of Technical Services

Trilogy Analytical laboratory
870 Vossbrink Drive
Washington, MO 63090
636-239-1521
www.trilogylab.com