

TRILOGY[®] REFERENCE MATERIAL CERTIFICATE



Certification Date: October 2010

Manufacture date: August 2010

Expiration Date: August 2020

Product Number: TR-A100, TR-A500, or TR-A1000

Lot # A-C-2208

Sample Weight: 100, 500, or 1000 grams

Description: Corn Naturally Contaminated with Aflatoxin

Analysis Compound	Detection Limits	Mean ppb	Mean SI units	1 sd range	2 sd range	3 sd range
Aflatoxin B1	0.5 ppb	1.7	(µg/kg)	1.5 to 2.0	1.2 to 2.2	1.0 to 2.5
Aflatoxin B2	0.5 ppb	ND				
Aflatoxin G1	0.5 ppb	ND				
Aflatoxin G2	0.5 ppb	ND				

Total 1.7 ppb
Std dev 0.3 ppb
% CV or %RSD 14.9 %

ND=None Detected

Method Reference – AOAC 994.08 with modifications

Expanded measurement of uncertainty (k=2) = 31.7% or ± 0.5 (ppb or µg/kg)

Range of product incorporating uncertainty ranges = 1.2 to 2.3 (ppb or µg/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 84/16 CH₃CN/H₂O for 1 hour on an eberbach shaker. Samples were analyzed by HPLC using AOAC method 994.08 with modifications. 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:



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