

TRILOGY REFERENCE MATERIAL CERTIFICATE



Certification Date: October 2015

Manufacture date: September 2015

Expiration Date: September 2020

Product Number: TR-D100, TR-D500, or TR-D1000

Lot # D-W-186

Sample Weight: 100, 500, or 1000 grams

Description: Wheat Naturally Contaminated with Deoxynivalenol

Analysis Compound	Detection Limits	Mean ppm	Mean SI units	1 sd range	2 sd range	3 sd range
Deoxynivalenol	0.1 ppm	3.8	(mg/kg)	3.4 to 4.2	3.0 to 4.6	2.6 to 5.0

Total	3.8 ppm
Std dev	0.4 ppm
% CV or %RSD	11.1 %

ND=None Detected

Method Reference – JAOAC Vol 88, No 4, 2005 McDonald with modifications

Expanded measurement of uncertainty ($k=2$) = 24.4 % or ± 0.9 (ppm or mg/kg)

Range of product incorporating uncertainty ranges = 2.8 to 4.7 (ppm or mg/kg)

Storage conditions: Recommended Storage of this product is at less than 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 JAOAC Vol 88, No4, 2005 McDonald 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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