

Trilogy[®] Reference MATERIAL CERTIFICATE



Certification Date: September 2015
 Manufacture date: September 2015
 Expiration Date: September 2020
 Product Number: TR-MT100, TR-MT500, TR-MT1000
 Sample Weight: 100, 500, 1000 grams
 Description: Wheat Naturally Contaminated with T-2 and HT-2 Toxin

Lot # T-W-972

Analysis Compound	Detection Limits	Mean ppb	Mean SI units	1 sd range	2 sd range	3 sd range
T-2 Toxin	5 ppb Std dev % cv or % RSD	45.5 4.0 8.7 %	(µg/kg)	41.5 to 49.4	37.5 to 53.4	33.5 to 57.4
HT-2 Toxin	5 ppb Std dev % cv or % RSD	338.2 43.5 12.9%	(µg/kg)	294.7 to 381.6	251.2 to 425.1	207.8 to 468.5

Method Reference – Internal SOP 14-168 – LC/MS/MS

Uncertainty calculations –T-2 Toxin

Expanded measurement of uncertainty (k=2) = 21.6% or ± 9.8 (ppb or µg/kg)

Range of product incorporating uncertainty ranges = 35.7 to 55.3 (ppb or µg/kg)

Uncertainty calculations –HT-2 Toxin

Expanded measurement of uncertainty (k=2) = 28.6% or ± 96.8 (ppb or µg/kg)

Range of product incorporating uncertainty ranges = 241.3 to 435.0 (ppb or µg/kg)

Storage conditions: Recommended Storage of this product 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 Internal SOP 14-168 – LC/MS/MS. 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. This result represents the results you would find from one laboratory performing one specific method repeatedly over the course of several weeks. 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

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