

**Trilogy Analytical Laboratory**

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# Analytical Standard

Certificate of Analysis

## Product Details

Product Number:	25.0µg/mL Aflatoxin B1 TAS-M11LA1-10				
Lot Number	Expiry	Volume	Solvent	Storage	Purity
230706-23352	December 18, 2024	10.0mL	Acetonitrile	≤ 8 °C	≥ 98.0%

## Assigned Values and Uncertainties

Compound	Mass Concentration	
	Assigned Value	Uncertainty*
Aflatoxin B1	25.3µg/mL	± 1.97µg/mL

\*Expanded uncertainty at a 95% confidence level (k = 2). All calculations of expanded uncertainty are based on the criteria outlined in the JCGM 100:2008; Guide to the Expression of Uncertainty in Measurement.

**Craig Humphrey**

Chemistry Production Manager

December 18, 2023

Version 1.0

This certificate of analysis verifies the analytical standard passes Trilogy quality control specifications and is released for sale. The document has been electronically signed.

#### **Intended use of the Analytical Standard**

Analytical Standards can be used for verification of laboratory performance, matrix fortification, method development and optimization, calibration curves, trouble shooting, method validation, and calculating recovery corrections for the analysis of mycotoxins by HPLC, GC, MS, MSMS, or TLC.

#### **Instructions for use**

Use the assigned value provided on the certificate of analysis to calculate the volumes of standard needed to perform the function in which you desire. It is important to note, that if diluting Trilogy Analytical Standards for use as calibrants, that fresh standard dilutions be made daily. Please feel free to contact Trilogy Analytical Laboratory for any assistance needed pertaining to calculations or use.

#### **Special instructions for dried (insitu) Analytical Standards**

For Trilogy dried (insitu) Analytical Standards, reconstitute with a class A volumetric pipette using the recommended compatible solvent system indicated on the **solvent** specification of the product details. Verify HPLC grade or equivalent to higher purity is used in the reconstitution process. Final reconstituted volume is provided as the **volume** on the product details section and should be the solvent volume used for reconstitution. Recommended temperature for reconstitution is 23 °C ( $\pm$  2 °C). Replace the screw cap on the vial and vortex for a minimum of 30 seconds to complete the reconstitution process.

For measurements that require a fully integrated uncertainty, the provided uncertainty should be expanded to include the uncertainty associated with the user's reconstitution process.

#### **Safety precautions**

Good laboratory practices should be observed while handling all Trilogy Analytical Standards. Follow the recommended precautionary measures (OSHA 29 CFR 1910.1450) for handling chemicals and powders. Avoid contact with eyes, skin, and clothing. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. For specific product Safety Data Sheets contact Trilogy Analytical Laboratory.

#### **Further information**

Trilogy Analytical Standards are for laboratory use only. Trilogy does not make any warranties, expressed or implied, in connection to Analytical Standards other than the product meets the quality control specifications at Trilogy Analytical Laboratory. Trilogy Analytical Standards are to be used at the purchaser's discretion. In no way, does Trilogy accept responsibility for the use or work performed by the purchaser.

This product is an Analytical Standard, not a Certified Reference Material under the Trilogy ISO 17034:2016 scope of accreditation.