

685168

Lot: 837030

Aflatoxin B1

Concentration	10.0 µg/ml	Expanded Uncertainty	0.49 µg/ml
Solvent	Acetonitrile	Expiry Date	01 Jan 2028
Formula	C ₁₇ H ₁₂ O ₆	Store at	-20°C (in the dark)
Mol. Weight	312.27 g/mol		
CAS-No.	1162-65-8	Format	Solution

Certified on 22 Dec 2025

by Corinna Gröst
RM Release

For the calculation of the concentration, the purity of the compound has already been considered.

Instructions for use: Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. Please mix the solution before usage. If particles or precipitation are detected, sonify until solved. The material is homogenous. There is no minimum sample specified. The material in the vial can be used multiple times, but it is strongly recommended, that all external negative influences for the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen) and that the weight of the bottle between all uses are noted to remain constant to exclude concentration deviations. It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed, if the substance is handled under unfavorable conditions.

The certified values and uncertainties are determined in accordance with ISO 17034 with an 95% confidence level ($k=2$). Uncertainty is based on the total combined uncertainty, including uncertainties of preparation, homogeneity and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions of the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Traceability:

Analyte calculated from	Aflatoxin B1
Lot	795495 neat product used for the preparation of the solution
Purity (neat)	99.90 % (g/g)

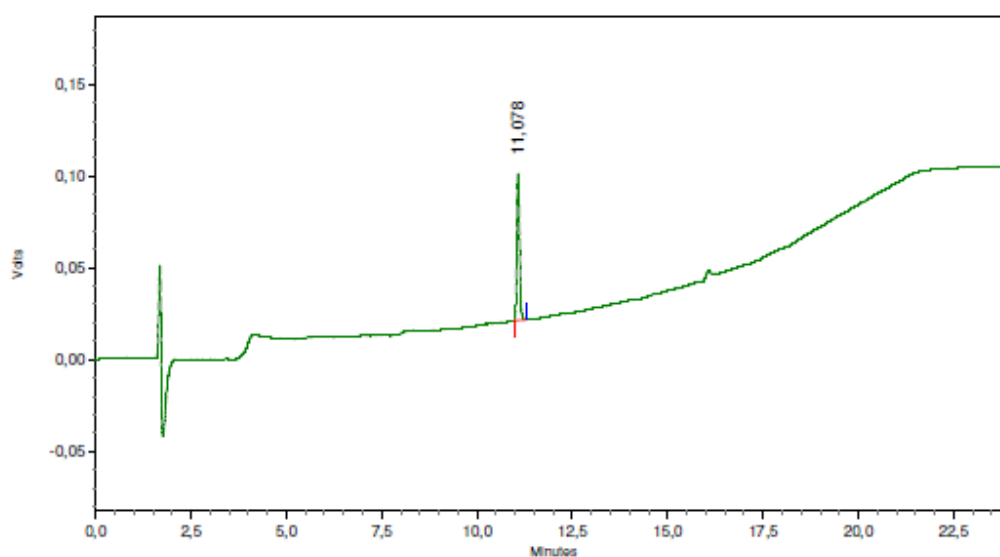
The balances used are calibrated with weights traceable to the national standards which makes them traceable to the International System of Units (SI).

The HPC Standards Inc., accredited by ANAB as indicated by the accreditation number AR-2998, has shown competence based on ISO 17034:2016 for the production of certified reference materials.



HPLC-Method

Article 685168
Lot-No. 837030
Column L=100mm, ID=4.6mm; Kinetex C18, 2.6µm
Eluent A 0.1% TFA (Acetonitrile)
Eluent B 0.1% TFA (Water)
Gradient
time %A %B
0 min 0 100
19 min 90 10
22 min 90 10
Flow 0.7 ml min⁻¹
Detector UV-220nm



Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	685168	837030	Initial Version	22 Dec 2025