Fianovis
Act together for food integrity

CERTIFICATE OF ANALYSIS

Aflatoxin B1 in Acetonitrile LCMS grade

Description of the standard

	Product name:	Aflatoxin B1			
	Product number:	FIA000434			
	CAS number:	Aflatoxin B1	1162-65-8		
	Batch:	AFB120102001			
	Expiry date:	28-Apr-2028			
	Certified value (s):	Aflatoxin B1	**20,04**	**±**	**0,34** **µg/mL**
	Physical description:	Clear solution of toxins mixture in Acetonitrile LCMS grade			
	Packing	Amber glass vial filled with 50 mL of solution			
	Storage conditions	≤ -10°C			
	Matrix and starting material:	This material was prepared with/from:			
		Acetonitrile LCMS grade		Batch:	P4N670234N
		Aflatoxin B1		Internal ID:	SS-AFB1-20102101

Intended use of the standard:

For laboratory use only. Not for drug, household or other uses. The main purpose of this material is :
• Demonstrate mastery of a measurement process within a laboratory over a given period;
• Check the performance of the instrument;
• Repeatability and reproducibility studies: repeated use over a long period of time, instruments, operators, etc., to estimate the long-term reproducibility or robustness of a measuring process or that of a laboratory;
• Confirm the degree of equivalence of measurement results from at least two laboratories (e.g. supplier and user);
• Check variability due to the operator;
• Study the impact of any variation in environmental conditions (e.g. temperature, humidity).

Instruction for the correct use of the standard:

The vial should be stored in a dark place at ≤ -10°C . Before usage of the standard, allow the vial to warm to room temperature. If condensation is present on the bottle, the bottle should be wiped before opening.Homogenization can be done by vortexing for at least 10 seconds. There is no indication as to the vortex speed, but the vortex must be visible to the user.The bottle should not be left open on the bench, it should be opened only to take the necessary quantity and immediately closed.The expiry date of this standard is based on the current knowledge and holds only for proper storage conditions in the originally closed vials / packages.

Hazardous situation:

H225 : Flammable liquid - Category 2 - Highly flammable liquid and vapour
H302 : Acute toxicity - Oral - Category 4 - Harmful if swallowed
H312 : Acute toxicity - Dermal - Category 4 - Harmful in contact with skin
H319 : Eye irritation - Category 2 - Causes serious eye irritation
H332 : Acute toxicity - Inhalation - Category 4 - Harmful if inhaled

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure. Wear suitable protective clothing.

Safety measures:

Special care must be taken when manipulating this standard. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Safety shower and eye bath must be near. In case of spills, cover and absorb with an inert dry material such as dry-lime, sand or soda ash and place in an appropriate waste disposal container. Keep container tightly closed. Do not store in direct sunlight. Keep away from heat, sparks, flame and incompatible material. Storage area should be cool, dry and away from incompatible materials.
Final users should conduct their own investigations to determine the suitability of the information for their particular research purposes. Under no circumstances will the supplier of this standard be held responsible for any damage resulting from handling or contact with the product.
More information are avaible on the SDS online on www.fianovis.com/documentation.

Commutability

As part of the standards produced by Fianovis, the property values are guaranteed for chromatography analysis. For another use, the user must make additional qualification to use it in this context.

Traceability

The certified values are based on the results of analytical techniques previously used for purity assessment of solid mycotoxins. High purity material represents a practical realization of concentration units, through conversion of mass to molar quantity.

Product name	Lot number	Amount per vial requested	Measured volume (mL)	Acetonitrile volume (mL)
Aflatoxin B1	SS-AFB1-20102101	20,00	4,36	55,64

References:

• NF ISO 33401 (2024), Reference Materials - Contents of certificates, labels and accompanying documentation.
• ISO 17034 (2016) General requirements for the competence of reference material producers.
• ISO/IEC 17025 (2017) General requirements for the competence of testing and calibration laboratories.
• ISO 33405 (2024), Reference Materials - Approaches for characterization and assessment of homogeneity and stability.
• ISO TR 16476 (2016) Reference Materials – Establishing and expressing metrological traceability of quantity values assigned to reference materials.
• JCGM 100(2008) (E) – Evaluation of measurement data - Guide to the expression of uncertainty in measurement.

Control and Certification

Edited by: Quality Control department

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