

CERTIFICATE OF ANALYSIS

Diacetoxyscirpenol in Acetonitrile LCMS grade

The certified values and uncertainty are determined in accordance with NF ISO 33401, ISO 17034, ISO/IEC 17025, ISO33405, ISO TR 16476 and JCGM 100.

Description of the standard



Product name:	Diacetoxyscirpenol			
Product number:	FIA000238			
CAS number:	Diacetoxyscirpenol	2270-40-8		
Batch:	DAS20091701			
Expiry date:	17-Sep-2029			
Certified value (s):	Diacetoxyscirpenol	99,92 ± 2,92	µg/mL	
Physical description:	Clear solution of toxin in Acetonitrile LCMS grade			
Packaging	Amber glass vial filled with 10 mL			
Storage conditions	≤ -10°C			
Matrix and starting material:	This material was prepared with/from:			
	Acetonitrile LCMS Grade	Batch: P4N670234N		
	Diacetoxyscirpenol	Internal ID: SS-DAS-20042001		

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 available 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 values are based on the chromatographic detestandardination of the concentration of the stock solution. The chromatographic assay method was demonstrated to be selective through validation of the analytical method. Pipette calibration is verified by an accredited external calibration service. Production is carried out with specially dedicated glassware. Only Class A glassware is used for volumetric measurements.

Calculation of certified values and associated uncertainties

This calibrant is certified on solution preparation. Mass concentration calculation is based on certified concentration and dilution step. Toxin is pipetted and diluted in Acetonitrile LCMS grade.

$$C (\mu\text{g/mL}) = \frac{C_{ss} \times V_p}{V_D}$$

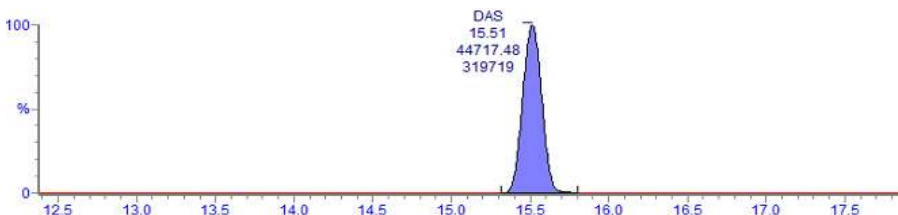
Toxin	Source				Standard uncertainty
Diacetoxyscirpenol	Liquid solution C_{ss}	concentration	724,07	$\mu\text{g/mL}$	6,06
	Volumetry procedure V_p	volume	6,90	mL	0,08
	Dilution V_D	volume	50,00	mL	0,03
$\text{Combined}_u = \sqrt{\left(\frac{u_{C_{ss}}}{V_{C_{ss}}}\right)^2 + \left(\frac{u_{V_p}}{V_p}\right)^2 + \left(\frac{u_{V_D}}{V_D}\right)^2}$					0,01
$\text{Concentration}_{\text{Toxin}} = \frac{\text{Concentration stock solution} \times V_p}{V_D} \mu\text{g/mL}$					99,92
Total expanded uncertainty (using a coverage factor $k=2$)					2,92

Notes: The purity of the mycotoxin used for this standard was detestandardined by liquid chromatography. Following the Guide to the Expression of Uncertainty in measurement (GUM) the expanded uncertainty of toxin level is obtained by multiplication with a coverage factor K for which 2 is usually chosen to obtain a confidence level of 95 %.

Quality control

Confirmation of the certified concentration by LC-MS/MS

The certified concentrations of the prepared solution was confirmed by LC-MS/MS against a reference batch.

Chromatographic conditions					Chromatogram of Toxins	
Column :	Acquity UPLC HSS T3 100 x 2,1 mm 1,8 μm					
Mobile phase :	MeOH / H2O + 0,1% formic acid + 5mM ammonium acetate / Gradient					
Flow (mL/min) :	0,30					
Temperature (°C) :	35,00					
Detector :	MS/MS					
Diacetoxyscirpenol	95,46	±	2,89	μg/mL		
Mean of 6 replicates measurement against reference batch, confidence interval with P = 95%						

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

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Date: 30/09/2026

