Fianovis
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CERTIFICATE OF ANALYSIS

Standard Solution of Trichothecenes mixture SF4 in Methanol LCMS grade

Description of the standard

Product name:	Standard Solution of Trichothecenes mixture SF4				
Product number:	FIA000432				
CAS number:	Deoxynivalenol	51481-10-8			
	Nivalenol	23282-20-4			
	Fusarenon-X	23255-69-8			
	15-Acetoxyscirpenol	2623-22-5			
	3-Acetyl-Deoxynivalenol	50722-38-8			
	15-Acetyl-Deoxynivalenol	88337-96-6			
	Diacetoxyscirpenol	2270-40-8			
	Neosolaniol	36519-25-2			
	T2 Triol	34114-98-2			
	HT2 Toxin	26934-87-2			
	T2 Toxin	21259-20-1			
	Zearalanone	5975-78-0			
	Alpha Zearalanol	26538-44-3			
	Beta Zearalanol	42422-68-4			
Batch:	SF420110601				
Expiry date:	09-May-2028				
Certified value (s):	Deoxynivalenol		**3,20**		**µg/mL**
	Nivalenol		**8,00**		**µg/mL**
	Fusarenon-X		**3,20**		**µg/mL**
	15-Acetoxyscirpenol		**1,52**		**µg/mL**
	3-Acetyl-Deoxynivalenol		**2,00**		**µg/mL**
	15-Acetyl-Deoxynivalenol		**2,00**		**µg/mL**
	Diacetoxyscirpenol		**2,96**		**µg/mL**
	Neosolaniol		**1,52**		**µg/mL**
	T2 Triol		**1,04**		**µg/mL**
	HT2 Toxin		**1,60**		**µg/mL**
	T2 Toxin		**0,24**		**µg/mL**
	Zearalanone		**1,30**		**µg/mL**
	Alpha Zearalanol		**4,00**		**µg/mL**
	Beta Zearalanol		**4,00**		**µg/mL**
Physical description:	Clear solution of toxins mixture in Methanol LCMS grade				
Packing	Amber glass vial filled with 70 mL of solution				
Storage conditions	≤ -10°C				
Matrix and starting material:	This material was prepared with/from:				
	Methanol LCMS Grade			Batch:	P6B558096B
	Deoxynivalenol			Internal ID:	DON20061601
	Nivalenol			Internal ID:	NIV20062901
	Fusarenon-X			Internal ID:	FUS19060401
	15-Acetoxyscirpenol			Internal ID:	MAS20082401
	3-Acetyl-Deoxynivalenol			Internal ID:	3ACD20021001
	15-Acetyl-Deoxynivalenol			Internal ID:	15ACD20021201
	Diacetoxyscirpenol			Internal ID:	DAS20091701
	Neosolaniol			Internal ID:	NEO19110401
	T2 Triol			Internal ID:	TRI20021201
	HT2 Toxin			Internal ID:	HT219033101
	T2 Toxin			Internal ID:	T220040101
	Zearalanone			Internal ID:	ZEA20010601
	Alpha Zearalanol			Internal ID:	SS-AZL-20110601
	Beta Zearalanol			Internal ID:	SS-BZL-20110601

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
H301 : Acute toxicity - Oral - Category 3 - Toxic if swallowed
H311 : Acute toxicity - Dermal - Category 3 - Toxic in contact with skin
H331 : Acute toxicity - Inhalation - Category 3 - Toxic if inhaled
H370 : Acute toxicity - Organs - Category 1 - Causes damage to organs

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	Measurement unit	Methanol volume
Deoxynivalenol	DON20061601	3,20	3,20	mL	100mL
Nivalenol	NIV20062901	8,00	8,00	mL	100mL
Fusarenon-X	FUS19060401	3,20	3,20	mL	100mL
15-Acetoxyscirpenol	MAS20082401	1,52	1,52	mL	100mL
3-Acetyl-Deoxynivalenol	3ACD20021001	2,00	2,00	mL	100mL
15-Acetyl-Deoxynivalenol	15ACD20021201	2,00	2,00	mL	100mL
Diacetoxyscirpenol	DAS20091701	2,96	2,96	mL	100mL

Neosolaniol	NEO19110401	1,52	1,52	mL	100mL
T2 Triol	TRI20021201	1,04	1,04	mL	100mL
HT2 Toxin	HT219033101	1,60	1,60	mL	100mL
T2 Toxin	T220040101	0,24	0,24	mL	100mL
Zearalanone	ZEA20010601	1,30	1,30	mL	100mL
Alpha Zearalanol	SS-AZL-20110601	0,40	0,40	mL	100mL
Beta Zearalanol	SS-BZL-20110601	0,40	0,40	mL	100mL

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

Rignanese Ugo

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