


Standard Solution of Trichothecenes mixture SF1 Concentrated 5X in Methanol LCMS grade

Description of the Reference Material (RM)

	Product name:	Standard Solution of Trichothecenes mixture SF1 Concentrated 5X			
	Product number:	FIA000322			
	CAS number:	Diacetoxyscirpenol	2270-40-8		
		Fusarenon-X	23255-69-8		
		HT2 Toxin	26934-87-2		
		Neosolaniol	36519-25-2		
		Nivalenol	23282-20-4		
		T2 Toxin	21259-20-1		
	Lot number:	SF15X17041202			
	Expiry date:	11-Oct-2024			
	Certified value (s):	Diacetoxyscirpenol	10,00	mg/L	
		Fusarenon-X	50,00	mg/L	
		HT2 Toxin	44,00	mg/L	
		Neosolaniol	8,00	mg/L	
		Nivalenol	120,00	mg/L	
T2 Toxin		50,00	mg/L		
Physical description:	Clear solution of toxins mixture in Methanol LCMS grade				
Packing	Amber glass vial filled with 5 mL of solution				
Storage conditions	≤ -10°C				
Matrix and starting material:	This material was prepared with/from:				
	Methanol LCMS Grade	Batch:	0010006454		
	Diacetoxyscirpenol	Internal ID:	DAS003C		
	Fusarenon-X	Internal ID:	FX004CC		
	HT2 Toxin	Internal ID:	HT016A		
	Neosolaniol	Internal ID:	NS003A		
	Nivalenol	Internal ID:	NIV00C		
T2 Toxin	Internal ID:	T008			

Intended use of the RM:

For laboratory use for R&D purposes only. The main purpose of this material is for analytical instrument calibration (e. g. external calibration, standard addition). Not for drug, household or other uses.

Instruction for the correct use of the RM:

The vial should be stored in a dark place at ≤ -10°C . Before usage of the RM, allow the vial to warm to room temperature. The expiry date of this RM is based on the current knowledge and holds only for proper storage conditions in the originally closed vials / packages. Solutions prepared for calibration purpose should be protected from exposure to light. Discard solutions after use in accordance with appropriate safety regulations for chemical substances.

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 only 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.

Further information:

Further information is available in the SDS available online (downloading page: www.fianovis.com/documentation (documentation section)). 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 RM be held responsible for any damage resulting from handling or contact with the product.

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.

This calibrant is certified on weighing procedure. Toxin is weighed then dissolved in Methanol LCMS grade. Mass concentration calculation is based on weigh, purity and dilution step. The calibrated flask uncertainty is class A with provider data.

All weights used for metrological control are connected to national and international standards (Dakks & ilac-MRA). The weights are calibrated by an accredited laboratory.

Notes: Qualitative verification by LC-MS/MS.

References:

a-ISO GUIDE 31:2015, Reference Materials - Contents of certificates, labels and accompanying documentation.

b-ISO GUIDE 34:2009, General requirements for the competence of reference material producers

c-ISO GUIDE 35:2006, Reference materials - General and Statistical Principles.

d-ISO/IEC Guide 98-3:2008 Uncertainty of measurement-Part 3 : Guide to the expression of uncertainty in measurement (GUM:1995)

e-Eurachem/CITAC guide (2019), Traceability in Chemical Measurement.

f-Eurachem/CITAC guide (2012), Quantifying Uncertainty in Analytical Measurement.

g-AOAC Official Method 970.44-1971 - Preparation of Standards for Mycotoxins.

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Quality Control

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