

CERTIFICATE OF ANALYSIS

Neosolaniol in Acetonitrile LCMS grade

This document is designed, and the certified values and uncertainty are determined in accordance with ISO Guide 31, ISO Guide 35, AOAC, and Eurachem/ CITAC Guides.

Description of the Reference Material (RM)



Product name:	Neosolaniol							
Product number:	FIA000286							
CAS number:	Neosolaniol 36519-25-2							
Lot number:	NEO18042901							
Expiry date:	30-Apr-2026							
Certified value (s):	Neosolaniol	10	0,02	± 1,46		μg/mL		
Physical description:	Clear solution of toxin in Acetonitrile LCMS grade							
Packing	Amber glass vial filled with 10 mL of solution							
Storage conditions	≤-10°C							
Matrix and starting	This material was prepared with/from:							
material:	Acetonitrile LCMS Grade				Batch:	0001204102BS		
	Neosolaniol				Internal ID:	NS003A		

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

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 H331: Acute toxicity - Inhalation - Category 3 - Toxic 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 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.



Calculation of certified values and associated uncertainties

This calibrant is certified on weighing procedure. Toxin is weighed then dissolved in Acetonitrile LCMS grade. Mass concentration calculation is based on weigh, purity and dilution step.

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

$$C (\mu g/mL) = \frac{m \times P}{V}$$

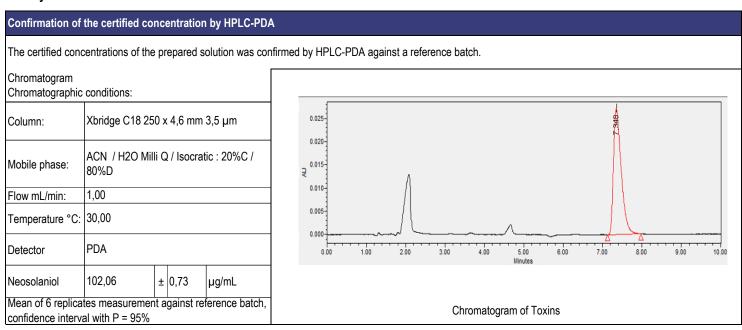
Toxin	Source				Standard uncertainty
Neosolaniol	Purity		87,74	%	0,62
	Powder	weighing	2280,00	μg	0,10
	Dilution	volume	20,00	mL	0,03
	0,01				
	100,02				
	1,46				

Notes:

The purity of the mycotoxin used for this RM was determined 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



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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