



# Fianovis

Act together for food integrity



## **MYCOTOXINS REFERENCE MATERIALS PRODUCER**

Single and mixture  
of Mycotoxin Standards solutions,  
native & C13 fully labeled

## FIANOVIS: a state-of-the-art offer for accurate and reliable mycotoxin detection

*Mycotoxins are secondary metabolites produced by different types of fungi that can contaminate cereals, fruits or spices. If ingested in high quantities, these toxic substances can be harmful to human and animal health. Governments set limits for mycotoxins levels to ensure consumers protection. The accurate quantitative determination of mycotoxins is therefore a major issue for global food safety.*

With more than 20 years of expertise in detection and quantification of mycotoxins, and substantial investments in R&D and human talents, Fianovis laboratory has developed specific expertise and technology for uniform and complete labeling by isotopic enrichment with Carbon 13 (stable isotope). This innovative technology, supported by high added-value know-how ensures accurate mycotoxin detection

by utilizing reference calibration solutions and internal standards as molecular tracers. As an active part of French and international technical standardization committees, Fianovis, who is ISO 17034 accredited actively shapes the future of analytical methods, contributing to the standardization and improvement of industry benchmarks.



Expertise  
& Innovation



Quality  
& Reliability



Support  
& Responsiveness



## FIANOVIS and ISO 17034 accreditation When excellence becomes a global benchmark

FIANOVIS is proud to announce its ISO 17034 accreditation, the International Standard defining the competence requirements for mycotoxins Reference Materials Producers. This accreditation has been obtained, exclusively worldwide, with the same compound (Deoxynivalenol) in CRM, both in native (C12) and labeled (C13).

This is a significant milestone in FIANOVIS' history. Since its creation, FIANOVIS has been committed to ensuring the reliability, traceability, and quality of its Reference Materials.

For FIANOVIS, this accreditation confirms the robustness of its manufacturing process and the effectiveness of its quality management system. It reflects our commitment to providing reliable, compliant and sustainable solutions.

### What is the ISO 17034 standard?

ISO 17034 specifies the general requirements for the competence of Reference Materials manufacturers. It is an accreditation granted following independent audits conducted by the COFRAC accreditation body.

### Guarantees aligned with international standards

ISO 17034 accreditation by a third-party body (COFRAC), confirms the quality of our solutions with regard to international metrological traceability system, uncertainty determination, homogeneity, purity, and real time stability including transport conditions.

It also ensures:

- Recognized technical expertise in the production of mycotoxins Reference Materials
- Full traceability and validation of the methods employed
- Impartiality throughout the manufacturing process
- Compliance with ISO 17025 and ISO 17034 requirements

### A performance level for your analysis

Our ISO 17034 accreditation attests to our ability to produce and supply Certified Reference Materials (CRM) and Reference Materials (RM) of the highest quality. These standards of excellence ensure you have reliable Reference Materials for calibration, analytical method validation, and quality control.

### A high level of confidence in your analytical results

Using Reference Materials produced by an ISO 17034 accredited manufacturer significantly enhances the reliability and accuracy of your analytical results. Your analyses gain credibility and scientific value, both internally and in interactions with your customers and authorities.

### A powerful marketing asset and robust foundation for your accreditations

Working with an ISO 17034 accredited supplier is a strategic advantage for your organization. The COFRAC accreditation, internationally recognized by ILAC, strengthens your quality process in the eyes of customers and partners, and reinforces your image of technical excellence. It is a strong differentiating argument demonstrating your commitment to reliability, regulatory compliance, and performance.

## Adaptable and reliable solutions to your evolving needs!

Need to develop new methods, to use custom-made mixtures or to test emerging molecules?

Fianovis supports the growth of your business, meeting your specific needs in terms of mixing, concentration, solvent and conditioning.

### Our goals

- Provide Stability study
- Enable quality control and method optimization
- Support research and development
- Save valuable time
- Minimize the risk of errors and non-compliance
- Streamline your inventory management



### Your benefits

- Saving valuable time on preparations, quality control & procedures
- Minimize the risk of errors and non-compliance
- Streamline your inventory management with higher volumes & reserved batches



*We are extremely pleased with our partnership with Fianovis. Beyond the exceptional quality of their C13 internal labeled standards which ensure excellent repeatability of our analysis, we particularly appreciated the wide range of packaging options they offered. The availability of 10 mL vials allows us to maintain an appropriate stock of standards that meets our specific requirements.*

**- Stefan JAGER**  
Head of Laboratory  
GBA Group - Germany





## 7 reasons to choose Fianovis Mycotoxin Standards

- ▶ **Absolute reliability:** Certified reference materials, accompanied by an uncertainty estimate, for accurate and reproducible analytical results.
- ▶ **Recognized expertise:** Produced by an ISO 17034 accredited manufacturer, a guarantee of quality and compliance with the most stringent international standards.
- ▶ **Fully C13 labeling:** Optimized solutions for reliable quantitative analyses, without interference related to the isotopic effect.
- ▶ **Made in France:** Entirely in-house production for optimal quality and complete traceability.
- ▶ **Recognized by international expert laboratories:** A proven solution for reliable and reproducible results.
- ▶ **Customized mixtures and batches** to meet your needs, improve your processes, and reduce your analytical costs.
- ▶ **Ready-to-use solutions** in vials of various sizes, securely sealed with secondary packaging to protect against impact.

# FIANOVIS MYCOTOXIN STANDARDS RANGE

Fianovis offers a wide range of standards for all regulated and emerging Mycotoxins: single and mixture solutions, native (C12) and fully labeled (C13) standards. Using Fianovis solutions enables you to generate calibration curves on HPLC or LC-MS-MS and to control and correct your extraction method. Our solutions are certified in accordance with the requirements of NF ISO 33401, ISO 17034, ISO/IEC 17025, ISO 33405, ISO TR 16476 and JCGM 100.

● C13 fully labeled standards      ● Native standards

## Aflatoxins - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C <sub>17</sub> ] - Aflatoxin B1	0.5 µg/mL	0.5 mL	FIA000104
		1.2 mL	FIA000105
		5 mL	FIA000106
		10 mL	FIA000107
U-[ <sup>13</sup> C <sub>17</sub> ] - Aflatoxin B2	0.5 µg/mL	0.5 mL	FIA000108
		1.2 mL	FIA000109
		5 mL	FIA000110
		10 mL	FIA000111
U-[ <sup>13</sup> C <sub>17</sub> ] - Aflatoxin G1	0.5 µg/mL	0.5 mL	FIA000112
		1.2 mL	FIA000113
		5 mL	FIA000114
		10 mL	FIA000115
U-[ <sup>13</sup> C <sub>17</sub> ] - Aflatoxin G2	0.5 µg/mL	0.5 mL	FIA000116
		1.2 mL	FIA000117
		5 mL	FIA000118
		10 mL	FIA000119
U-[ <sup>13</sup> C <sub>17</sub> ] - Aflatoxin M1	0.5 µg/mL	0.5 mL	FIA000120
		1.2 mL	FIA000121
		5 mL	FIA000122
		10 mL	FIA000123
Aflatoxin B1	2 µg/mL	1 mL	FIA000194
		5 mL	FIA000195
		10 mL	FIA000196
Aflatoxin B2	0.5 µg/mL	1 mL	FIA000197
		5 mL	FIA000198
		10 mL	FIA000199
Aflatoxin G1	2 µg/mL	1 mL	FIA000200
		5 mL	FIA000201
		10 mL	FIA000202
Aflatoxin G2	0.5 µg/mL	1 mL	FIA000203
		5 mL	FIA000204
		10 mL	FIA000205
Aflatoxin M1	0.5 µg/mL	1 mL	FIA000206
		5 mL	FIA000207
		10 mL	FIA000208

Product Name	Concentration	Conditioning	Reference
Aflatoxin M2	0.5 µg/mL	1 mL	FIA000209
		5 mL	FIA000210
		10 mL	FIA000211
U- <sup>[13C<sub>17</sub>]</sup> - Aflatoxin B1, B2, G1, G2 mixture	0.5 µg/mL of each	0.5 mL	FIA000124
		1.2 mL	FIA000125
		5 mL	FIA000126
		10 mL	FIA000127
Aflatoxins B1, B2, G1, G2 mixture	250 ng/mL of each	1 mL	FIA000212
		5 mL	FIA000213
		10 mL	FIA000214
Aflatoxins B1, B2, G1, G2 mixture	B1, G1 : 2 µg/mL B2, G2 : 0.5 µg/mL	1 mL	FIA000215
		5 mL	FIA000216
		10 mL	FIA000217
Aflatoxins B1, B2, G1, G2 mixture	1 µg/mL of each	1 mL	FIA000376
		5 mL	FIA000377
		10 mL	FIA000378
Aflatoxins B1, B2, G1, G2 mixture	10 µg/mL of each	1 mL	FIA000218
		5 mL	FIA000219
		10 mL	FIA000220
Aflatoxins B1, B2, G1, G2 mixture	25 µg/mL of each	1 mL	FIA000221
		5 mL	FIA000222
		10 mL	FIA000223
Aflatoxins B1, B2, G1, G2, Ochratoxin A mixture in acetonitrile	10 µg/mL of each	1 mL	FIA000224
		5 mL	FIA000225
		10 mL	FIA000226

### 15-Acetoxyeirpenol (MAS) - Solvent: acetonitrile



Product Name	Concentration	Conditioning	Reference
15-Acetoxyeirpenol (MAS)	50 µg/mL	1 mL	FIA000281
		5 mL	FIA000282
		10 mL	FIA000283

### Alternaria Toxins - Solvent: methanol

Product Name	Concentration	Conditioning	Reference
U- <sup>[13C<sub>15</sub>]</sup> - Altenuene (ALT)	10 µg/mL	0.5 mL	FIA000407
		1.2 mL	FIA000408
		5 mL	FIA000409
		10 mL	FIA000410
U- <sup>[13C<sub>10</sub>]</sup> - Tenuazonic Acid (TEA)	10 µg/mL	0.5 mL	FIA000411
		1.2 mL	FIA000412
		5 mL	FIA000413
		10 mL	FIA000414

Product Name	Concentration	Conditioning	Reference
Alternariol (AOH)	50 µg/mL	1 mL	FIA000227
		5 mL	FIA000228
		10 mL	FIA000229
Alternariol Monomethyl Ether (AME)	50 µg/mL	1 mL	FIA000230
		5 mL	FIA000231
		10 mL	FIA000232
Altenuene (ALT)	50 µg/mL	1 mL	FIA000395
		5 mL	FIA000396
		10 mL	FIA000397
Tenuazonic Acid (TEA)	50 µg/mL	1 mL	FIA000398
		5 mL	FIA000399
		10 mL	FIA000400
Tentoxin (TEN)	50 µg/mL	1 mL	FIA000401
		5 mL	FIA000402
		10 mL	FIA000403
Alternariol, Alternariol Monomethyl Ether, Altenuene, Tentoxin mixture	10 µg/mL of each	1 mL	FIA000404
		5 mL	FIA000405
		10 mL	FIA000406

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Product Name	Concentration	Conditioning	Reference
 U- <sup>13</sup> C <sub>15</sub> ] - Deoxynivalenol ISO 17034 Certified Reference Materials	25 µg/mL	1.2 mL	FIA000392
		5 mL	FIA000393
U- <sup>13</sup> C <sub>15</sub> ] - Deoxynivalenol	25 µg/mL	0.5 mL	FIA000128
		1.2 mL	FIA000129
		5 mL	FIA000130
		10 mL	FIA000131
U- <sup>13</sup> C <sub>17</sub> ] -3-acetyl-Deoxynivalenol	25 µg/mL	0.5 mL	FIA000100
		1.2 mL	FIA000101
		5 mL	FIA000102
		10 mL	FIA000103
 Deoxynivalenol (DON) ISO 17034 Certified Reference Materials	50 µg/mL	1 mL	FIA000390
		5 mL	FIA000391
Deoxynivalenol (DON)	100 µg/mL	1 mL	FIA000239
		5 mL	FIA000240
		10 mL	FIA000241
3-acetyl-Deoxynivalenol	100 µg/mL	1 mL	FIA000191
		5 mL	FIA000192
		10 mL	FIA000193
15-acetyl-Deoxynivalenol	100 µg/mL	1 mL	FIA000188
		5 mL	FIA000189
		10 mL	FIA000190

**Diacetoxyscirpenol (DAS)** - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
Diacetoxyscirpenol (DAS)	100 µg/mL	1 mL	FIA000236
		5 mL	FIA000237
		10 mL	FIA000238

**Enniatins - Beauvericin** - Solvent: methanol

Product Name	Concentration	Conditioning	Reference
Enniatin A	100 µg/mL	1 mL	FIA000245
		5 mL	FIA000246
		10 mL	FIA000247
Enniatin A1	100 µg/mL	1 mL	FIA000248
		5 mL	FIA000249
		10 mL	FIA000250
Enniatin B	100 µg/mL	1 mL	FIA000251
		5 mL	FIA000252
		10 mL	FIA000253
Enniatin B1	100 µg/mL	1 mL	FIA000254
		5 mL	FIA000255
		10 mL	FIA000256
Beauvericin	100 µg/mL	1 mL	FIA000233
		5 mL	FIA000234
		10 mL	FIA000235
Enniatins A, A1, B, B1, Beauvericin mixture	10 µg/mL of each	1 mL	FIA000257
		5 mL	FIA000258
		10 mL	FIA000259



 **Fumonisins** - Solvent: acetonitrile / water (50/50)

Product Name	Concentration	Conditioning	Reference
U- <sup>[13C<sub>34</sub>]</sup> - Fumonisin B1	25 µg/mL	0.5 mL	FIA000132
		1.2 mL	FIA000133
		5 mL	FIA000134
		10 mL	FIA000135
U- <sup>[13C<sub>34</sub>]</sup> - Fumonisin B2	10 µg/mL	0.5 mL	FIA000136
		1.2 mL	FIA000137
		5 mL	FIA000138
		10 mL	FIA000139
U- <sup>[13C<sub>34</sub>]</sup> - Fumonisin B3	10 µg/mL	0.5 mL	FIA000140
		1.2 mL	FIA000141
		5 mL	FIA000142
		10 mL	FIA000143
Fumonisin B1	50 µg/mL	1 mL	FIA000260
		5 mL	FIA000261
		10 mL	FIA000262
Fumonisin B2	50 µg/mL	1 mL	FIA000263
		5 mL	FIA000264
		10 mL	FIA000265
Fumonisin B3	50 µg/mL	1 mL	FIA000266
		5 mL	FIA000267
		10 mL	FIA000268
U- <sup>[13C<sub>34</sub>]</sup> - Fumonisins B1, B2 mixture	10 µg/mL of each	0.5 mL	FIA000148
		1.2 mL	FIA000149
		5 mL	FIA000150
		10 mL	FIA000151
Fumonisins B1, B2 mixture	50 µg/mL of each	1 mL	FIA000269
		5 mL	FIA000270
		10 mL	FIA000271
Fumonisins B1, B2, B3 mixture	50 µg/mL of each	1 mL	FIA000272
		5 mL	FIA000273
		10 mL	FIA000274

 **Fusarenon-X** - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
Fusarenon-X	100 µg/mL	1 mL	FIA000275
		5 mL	FIA000276
		10 mL	FIA000277

**HT2 Toxin** - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C <sub>22</sub> ] - HT2 Toxin	25 µg/mL	0.5 mL	FIA000152
		1.2 mL	FIA000153
		5 mL	FIA000154
		10 mL	FIA000155
HT2 Toxin	100 µg/mL	1 mL	FIA000278
		5 mL	FIA000279
		10 mL	FIA000280

**Neosolaniol** - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C <sub>19</sub> ] - Neosolaniol	25 µg/mL	0.5 mL	FIA000156
		1.2 mL	FIA000157
		5 mL	FIA000158
		10 mL	FIA000159
Neosolaniol	100 µg/mL	1 mL	FIA000284
		5 mL	FIA000285
		10 mL	FIA000286

**Nivalenol** - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
Nivalenol	100 µg/mL	1 mL	FIA000287
		5 mL	FIA000288
		10 mL	FIA000289

**Ochratoxins** - Solvent: methanol

Product Name	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C <sub>20</sub> ] - Ochratoxin A	10 µg/mL	0.5 mL	FIA000160
		1.2 mL	FIA000161
		5 mL	FIA000162
		10 mL	FIA000163
U-[ <sup>13</sup> C <sub>20</sub> ] - Ochratoxin B	10 µg/mL	0.5 mL	FIA000164
		1.2 mL	FIA000165
		5 mL	FIA000166
		10 mL	FIA000167
Ochratoxin A	10 µg/mL	1 mL	FIA000290
		5 mL	FIA000291
		10 mL	FIA000292
Ochratoxin B	10 µg/mL	1 mL	FIA000293
		5 mL	FIA000294
		10 mL	FIA000295

## Patulin - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
<b>[<sup>13</sup>C<sub>3</sub>]</b> - Patulin	25 µg/mL	0.5 mL	FIA000168
		1.2 mL	FIA000169
		5 mL	FIA000170
		10 mL	FIA000171
Patulin	100 µg/mL	1 mL	FIA000296
		5 mL	FIA000297
		10 mL	FIA000298

## Sterigmatocystin - Solvent: acetonitrile

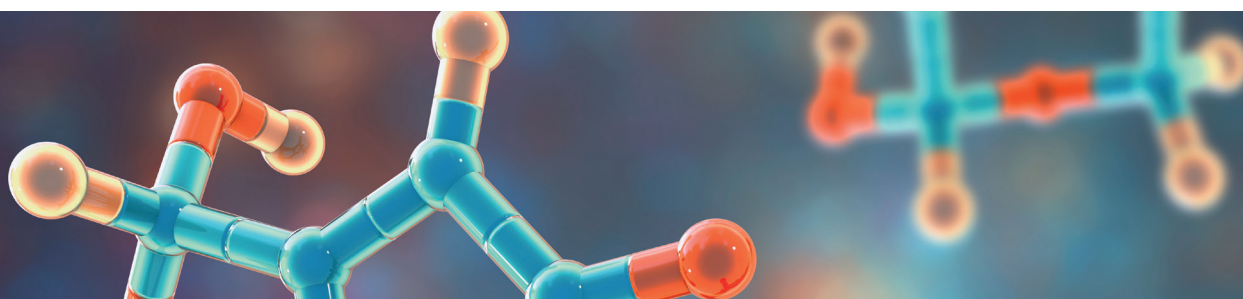
Product Name	Concentration	Conditioning	Reference
<b>U-[<sup>13</sup>C<sub>18</sub>]</b> - Sterigmatocystin	25 µg/mL	0.5 mL	FIA000172
		1.2 mL	FIA000173
		5 mL	FIA000174
		10 mL	FIA000175
Sterigmatocystin	50 µg/mL	1 mL	FIA000373
		5 mL	FIA000374
		10 mL	FIA000375

## T2 Toxin - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
<b>U-[<sup>13</sup>C<sub>24</sub>]</b> - T2 Toxin	25 µg/mL	0.5 mL	FIA000176
		1.2 mL	FIA000177
		5 mL	FIA000178
		10 mL	FIA000179
T2 Toxin	100 µg/mL	1 mL	FIA000299
		5 mL	FIA000300
		10 mL	FIA000301

## T2 Tetraol - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
T2 Tetraol	100 µg/mL	1 mL	FIA000305
		5 mL	FIA000306
		10 mL	FIA000307



## T2 Triol - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C <sub>20</sub> ] - T2 Triol	10 µg/mL	0.5 mL	FIA000180
		1.2 mL	FIA000181
		5 mL	FIA000182
		10 mL	FIA000183
T2 Triol	100 µg/mL	1 mL	FIA000308
		5 mL	FIA000309
		10 mL	FIA000310

## Zearalenone - Solvent: acetonitrile

Product Name	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C <sub>18</sub> ] - Zearalenone	25 µg/mL	0.5 mL	FIA000184
		1.2 mL	FIA000185
		5 mL	FIA000186
		10 mL	FIA000187
Zearalenone	100 µg/mL	1 mL	FIA000311
		5 mL	FIA000312
		10 mL	FIA000313

## Multi-components Mixtures

Mycotoxins often co-occur in food and feed samples, their simultaneous analysis is therefore essential for a global assessment of mycotoxin contamination.

Fianovis multi-components mixtures enable you to analyze samples for multiple mycotoxins. This method significantly improves your analysis efficiency, reducing time and resources required.

Product Name and solvent	Concentration	Conditioning	Reference
U-[ <sup>13</sup> C] - Deoxynivalenol, T2, HT2, Zearalenone mixture in acetonitrile	U-13C-DON 10 µg/mL	0.5 mL	FIA000314
	U-13C-T2 1 µg/mL	1.2 mL	FIA000315
	U-13C-HT2 10 µg/mL	5 mL	FIA000316
	U-13C-ZEA 3 µg/mL	10 mL	FIA000317
T2, HT2 Toxins mixture in acetonitrile	100 µg/mL of each	1 mL	FIA000302
		5 mL	FIA000303
		10 mL	FIA000304


For any custom mixtures to meet your needs with different compounds, concentrations, solvents, and volumes, please contact us for a personalized assessment.

**CERTIFIED REFERENCE MATERIAL - CRM ISO 17034**

## Deoxynivalenol in Acetonitrile LCMS grade

The Certified Reference Material is produced in compliance with NF ISO 33401, ISO 17034, ISO/IEC 17025, ISO33405, ISO TR 16476 and JCGM 100.

### Description of the CRM

Product name:	Deoxynivalenol		
Product number:	FIA000391		
CAS number:	Deoxynivalenol	51481-10-8	
Lot number:	DON19060202		
Expiry date:	04-Mar-2026		
Certified value (s):	Deoxynivalenol	100,16 ± 2,31 with k=2	µg/mL
Physical description:	Clear solution of toxins mixture in Acetonitrile LCMS grade		
Packing:	5 mL in amber glass vial		
Storage conditions:	≤ -10°C		
Matrix and starting material:	This material was prepared with/from:		
	Acetonitrile LCMS grade	Batch: P4B637154B	
	Deoxynivalenol	Internal ID: DON018A	

### Intended use of the CRM:

The main purpose of this material is :

- Calibration & Control of measuring instruments or systems;
- Validation of analytical methods and recommended for the accuracy;
- Determination of recovery rates from matrix separation such as extraction.

### Instruction for the correct use:

The vial should be stored in a dark place at Acetonitrile LCMS grade. Before usage of the CRM, 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. If storage after opening is necessary, the Certified Reference Material should be tightly closed and kept from light and moisture in amber glass.

### 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 CRM. 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 CRM 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](http://www.fianovis.com/documentation).

## Commutability

As part of the CRM 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 value is based on gravimetric and volumetric preparation. The purity and identification of the molecule were determined by quantitative <sup>1</sup>H NMR. Production is carried out with specially dedicated glassware. Only Class A glassware is used for volumetric measurements. The certified value is traceable to the International System.

## Calculation of uncertainties

The uncertainty ( $u_{CRM}$ ) is the combination of the batch characterization ( $u_{Char}$ ), between-unit variation ( $u_{Hom}$ ) and stability (including shipment) ( $u_{Stab}$ ). The constant is  $k=2$  used for the total uncertainty ( $U_{Total}$ ). The Certified Reference Material uncertainty is expressed in the following table :

$$U_{Total} = u_{CRM} \times 2 = \sqrt{u_{Char}^2 + u_{Hom}^2 + u_{Stab}^2} \times 2$$

Uncertainty	$u_{Char}$	$u_{Hom}$	$u_{Stab}$	$u_{CRM}$	$U_{Total}$
Molécule	$\mu\text{g/mL}$	$\mu\text{g/mL}$	$\mu\text{g/mL}$	$\mu\text{g/mL}$	$\mu\text{g/mL}$
Deoxynivalenol	0,68	0,38	0,83	1,14	2,28

Note: 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

The material has a high degree of homogeneity as it is a pure solution. The homogeneity was tested with HPLC-PDA and evaluated by variance analysis (ANOVA). The within a between unit variability was determined. The characterisation of the Certified Reference Material is done by <sup>1</sup>H-qNMR. The shelf-life & stability has been determined with the uncertainty of shipment, on the bench & long-term storage.



## ABOUT FIANOVIS

Fianovis is a French biotechnology laboratory based in France and specialized in R&D, production and commercialization of innovative and reliable mycotoxins standards solutions dedicated to food & feed safety.

With more than 20 years of expertise in detection and quantification of mycotoxins, and substantial investments in R&D and human talents, Fianovis laboratory has developed specific expertise and technology for uniform and complete labeling by isotopic enrichment with Carbon 13 (stable isotope).

As an active part of French and international technical standardization committees, Fianovis actively shapes the future of analytical methods, contributing to the standardization and improvement of industry benchmarks.

### FIANOVIS Contact:

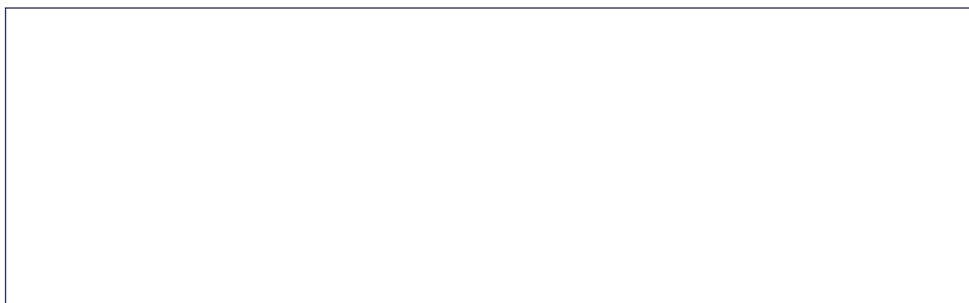
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Act together for food integrity



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