



# Standards Calibrants Matrix Reference Materials

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Quality is assured by the identification, characterisation and extensive quality control of the calibrants, using state of the art analytical methods (GC, HPLC, NMR, IR, MS). This ensures excellent purity and that products meet the specific requirements in trace analysis. Each calibrant is accompanied by a certificate of analysis and follows ISO and Eurachem guidelines.

The product range is also complete with internal standards (ready to go liquid form), fully labeled stable isotope calibrants and matrix reference materials (MRM).

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# biopure Product List 2010



## Mycotoxin Calibrant Solutions

Component	Conc. (µg/mL)	Solvent	Amount	Cat. No.
15-Acetyl-Deoxynivalenol (15-AcDON)	100	acetonitrile	5 mL	002014
15-Acetyl-Deoxynivalenol (15-AcDON)	100	acetonitrile	1 mL	S02014
3-Acetyl-Deoxynivalenol (3-AcDON)	100	acetonitrile	5 mL	002012
3-Acetyl-Deoxynivalenol (3-AcDON)	100	acetonitrile	1 mL	S02012
Aflatoxin B1 (AFB1)	2	acetonitrile	5 mL	002017
Aflatoxin B1 (AFB1)	2	acetonitrile	1 mL	S02017
Aflatoxin B2 (AFB2)	0.5	acetonitrile	5 mL	002018
Aflatoxin B2 (AFB2)	0.5	acetonitrile	1 mL	S02018
Aflatoxin G1 (AFG1)	2	acetonitrile	5 mL	002019
Aflatoxin G1 (AFG1)	2	acetonitrile	1 mL	S02019
Aflatoxin G2 (AFG2)	0.5	acetonitrile	5 mL	002020
Aflatoxin G2 (AFG2)	0.5	acetonitrile	1 mL	S02020
Aflatoxin M1	0.5	acetonitrile	5 mL	002030
Aflatoxin M1	0.5	acetonitrile	1 mL	S02030
Agroclavine	100	dried down	5 mL	002071
Alpha-Zearalanol (Zeranol)	10	acetonitrile	1 mL	S02054
Alpha-Zearalanol	10	acetonitrile	1 mL	S02042
Alternariol	100	dried down	1 mL	S02076
Alternariolmethylether	100	dried down	1 mL	S02077
Beauvericin ( <b>Coming soon!</b> )	-	-	-	-
Beta-Zearalanol (Taleranol)	10	acetonitrile	1 mL	S02055
Beta-Zearalanol	10	acetonitrile	1 mL	S02043
Citrinin	100	acetonitrile	1 mL	S02063
Citreoviridin	100	dried down	1 mL	LMY-084-1ML
Deepoxy-deoxynivalenol	50	acetonitrile	5 mL	002033
Deepoxy-deoxynivalenol	50	acetonitrile	1 mL	S02033
Deoxynivalenol (DON)	100	acetonitrile	5 mL	002009
Deoxynivalenol (DON)	100	acetonitrile	1 mL	S02009
Deoxynivalenol-3-glucoside	50	acetonitrile	1 mL	S02046
Diacetoxyscirpenol (DAS)	100	acetonitrile	5 mL	002037
Diacetoxyscirpenol (DAS)	100	acetonitrile	1 mL	S02037
Dihydroergocristine	100	dried down	5 mL	LMY-085-5ML
Ergocornine	100	dried down	5 mL	002064
Ergocorninine	25	dried down	5 mL	002072
Ergocristine	100	dried down	5 mL	002065
Ergocristinine	25	dried down	5 mL	002073
Ergocryptine	100	dried down	5 mL	002066
Ergocryptinine	25	dried down	5 mL	002074
Ergometrine	100	dried down	5 mL	002067
Ergosine	100	dried down	5 mL	002068
Ergotamine	100	dried down	5 mL	002069
Ergotaminine	25	dried down	5 mL	002075
Fumagillin	100	acetonitrile	1 mL	S02056
Fumonisin B1 (FB1)	50	acetonitrile/water	5 mL	002003
Fumonisin B1 (FB1)	50	acetonitrile/water	1 mL	S02003
Fumonisin B2 (FB2)	50	acetonitrile/water	5 mL	002004
Fumonisin B2 (FB2)	50	acetonitrile/water	1 mL	S02004
Fumonisin B3 (FB3)	50	acetonitrile/water	1 mL	S02007
Fusaric Acid ( <b>Coming soon!</b> )	-	-	-	-
Fusarenon X (FusX)	100	acetonitrile	5 mL	002010
Fusarenon X (FusX)	100	acetonitrile	1 mL	S02010
Glotoxin	100	acetonitrile	1 mL	S02057
HT-2 Toxin (HT-2)	100	acetonitrile	5 mL	002036
HT-2 Toxin (HT-2)	100	acetonitrile	1 mL	S02036
Kojic acid	100	dried down	1 mL	LMY-083-1ML



## Mycotoxin Calibrant Solutions

Component	Conc. (µg/mL)	Solvent	Amount	Cat. No.
Meleagrín	100	dried down	1 mL	LMY-081-1ML
Moniliformin (MON)	100	acetonitrile/water	1 mL	S02058
Mycophenolic acid	100	acetonitrile	5 mL	002049
Mycophenolic acid	100	acetonitrile	1 mL	S02049
Neosolaniol (NEO)	100	acetonitrile	5 mL	002001
Neosolaniol (NEO)	100	acetonitrile	1 mL	S02001
Nitropropionic acid	100	dried down	1 mL	LMY-082-1ML
Nivalenol (NIV)	100	acetonitrile	5 mL	002011
Nivalenol (NIV)	100	acetonitrile	1 mL	S02011
Ochratoxin A (OTA)	10	acetonitrile	5 mL	002023
Ochratoxin A (OTA)	10	acetonitrile	1 mL	S02023
Ochratoxin B (OTB)	10	acetonitrile	1 mL	S02052
Ochratoxin-alpha (OTa)	10	acetonitrile	1 mL	S02053
Patulin (PAT)	100	acetonitrile	5 mL	002026
Patulin (PAT)	100	acetonitrile	1 mL	S02026
Paxilline	100	acetonitrile	1 mL	S02059
Penicillic acid	100	acetonitrile	1 mL	S02060
Roquefortine C	100	dried down	1 mL	S02079
Sterigmatocystin	50	acetonitrile	5 mL	002051
Sterigmatocystin	50	acetonitrile	1 mL	S02051
T-2 Tetraol	50	acetonitrile	1 mL	S02048
T-2 Toxin (T-2)	100	acetonitrile	5 mL	002035
T-2 Toxin (T-2)	100	acetonitrile	1 mL	S02035
T-2 Triol	50	acetonitrile	1 mL	S02047
Tentoxin	100	dried down	1 mL	S02078
Tenuazonic acid	100	dried down	1 mL	LMY-080-1ML
Verruculogen	100	acetonitrile	1 mL	S02061
Wortmannin	100	acetonitrile	1 mL	S02062
Zearalanone (ZON)	10	acetonitrile	1 mL	S02041
Zearalenone (ZON)	100	acetonitrile	5 mL	002029
Zearalenone (ZON)	100	acetonitrile	1 mL	S02029

## Mycotoxin Calibrant Mixtures

Component	Conc. (µg/mL)	Solvent	Amount	Cat. No.
<b>MIX 1</b> (Aflatoxins)	2 (AFB1 & AFG1)	acetonitrile	5 mL	002021
<i>Aflatoxin B<sub>1</sub></i> , <i>Aflatoxin B<sub>2</sub></i>	0.5 (AFB2 & AFG2)		1 mL	S02021
<i>Aflatoxin G<sub>1</sub></i> , <i>Aflatoxin G<sub>2</sub></i>				
<b>MIX 2</b> (B-Tricothecenes)	100	acetonitrile	5 mL	002016
<i>DON</i> , <i>NIV</i> , <i>3-AcDON</i> , <i>15-AcDON</i>			1 mL	S02016
<b>MIX 3</b> (Fumonisin)	50	acetonitrile/water	5 mL	002006
<i>FB1</i> & <i>FB2</i>			1 mL	S02006
<b>MIX 4</b> (A+B-Tricothecenes & ZEA)	10	acetonitrile	5 mL	002002
<i>3-AcDON</i> , <i>DON</i> , <i>NIV</i> , <i>FusX</i> , <i>HT-2</i> , <i>T-2</i> , <i>DAS</i> , <i>ZON</i>			1 mL	S02002
<b>MIX 5</b> (Aflatoxins)	0.25	acetonitrile	6 mL	002022
<i>Aflatoxin B<sub>1</sub></i> , <i>Aflatoxin B<sub>2</sub></i>	(AFB1, AFG1,		1 mL	S02022
<i>Aflatoxin G<sub>1</sub></i> , <i>Aflatoxin G<sub>2</sub></i>	AFB2 & AFG2)			
<b>MIX 6</b> (Ergot Alkaloids)	100	dried down	5 mL	002070
<i>Ergocornine</i> , <i>Ergocristine</i> , <i>Ergocryptine</i> , <i>Ergometrine</i> , <i>Ergosine</i> , <i>Ergotamine</i>				





### Stable Isotope Labeled Calibrants

Component	Conc. (µg/mL)	Solvent	Amount	Cat. No.
U-[ <sup>13</sup> C <sub>17</sub> ]-3-Acetyl-Deoxynivalenol	25	acetonitrile	1.2 mL	ILM006
U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin B1	0.5	acetonitrile	1.2 mL	ILM010
U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin B2	0.5	acetonitrile	1.2 mL	ILM-011-1.2ML
U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin G1	0.5	acetonitrile	1.2 mL	ILM-012-1.2ML
U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin G2	0.5	acetonitrile	1.2 mL	ILM-013-1.2ML
U-[ <sup>13</sup> C <sub>15</sub> ]-Deoxynivalenol	25	acetonitrile	1.2 mL	002005
U-[ <sup>13</sup> C <sub>34</sub> ]-Fumonisin B1	25	acetonitrile/water	1.2 mL	ILM003
U-[ <sup>13</sup> C <sub>34</sub> ]-Fumonisin B2	10	acetonitrile/water	1.2 mL	ILM004
U-[ <sup>13</sup> C <sub>34</sub> ]-Fumonisin B3	10	acetonitrile/water	1.2 mL	ILM005
U-[ <sup>13</sup> C <sub>22</sub> ]-HT-2 Toxin	25	acetonitrile	1.2 mL	ILM008
U-[ <sup>13</sup> C <sub>20</sub> ]-Ochratoxin A	10	acetonitrile	1.2 mL	ILM007
U-[ <sup>13</sup> C <sub>7</sub> ]-Patulin	25	acetonitrile	1.2 mL	ILM-015-1.2ML
U-[ <sup>13</sup> N <sub>5</sub> ]-Meleagrin	25	acetonitrile	1.2 mL	ILM-018-1.2ML
U-[ <sup>13</sup> C <sub>17</sub> ]-Mycophenolic acid	100	acetonitrile	1.2 mL	ILM-014-1.2ML
U-[ <sup>13</sup> C <sub>15</sub> ]-Nivalenol	25	acetonitrile	1.2 mL	ILM-019-1.2ML
U-[ <sup>13</sup> C <sub>22</sub> ]-Roquefortine C	25	acetonitrile	1.2 mL	ILM-016-1.2ML
U-[ <sup>13</sup> C <sub>18</sub> ]-Sterigmatocystine	25	acetonitrile	1.2 mL	ILM-017-1.2ML
U-[ <sup>13</sup> C <sub>24</sub> ]-T-2 Toxin	25	acetonitrile	1.2 mL	002044
U-[ <sup>13</sup> C <sub>16</sub> ]-Zearalenone	25	acetonitrile	1.2 mL	ILM009

### Solid Mycotoxin Standards

Component	Cert. Purity (%)	Amount	Cat. No.
15-Acetyldeoxynivalenol	98.8 ± 1.2	5 mg	001006
15-Acetyldeoxynivalenol	98.8 ± 1.2	10 mg	001106
3-Acetyldeoxynivalenol	99.4 ± 0.6	5 mg	001003
3-Acetyldeoxynivalenol	99.4 ± 0.6	10 mg	001103
Aflatoxin B1	99.5 ± 0.5	5 mg	001012
Aflatoxin B2	99.7 ± 0.3	5 mg	001013
Aflatoxin G1	98.0 ± 2.0	5 mg	001014
Aflatoxin G2	97.1 ± 2.9	5 mg	001015
Deoxynivalenol	99.4 ± 0.6	5 mg	001001
Deoxynivalenol	99.4 ± 0.6	10 mg	001101
Fumonisin B1	97.6 ± 2.4	5 mg	001007
Fumonisin B1	97.6 ± 2.4	10 mg	001107
Fusarenon X	99.4 ± 0.6	5 mg	001004
Fusarenon X	99.4 ± 0.6	10 mg	001104
Neosolaniol	99.4 ± 0.6	5 mg	001010
Neosolaniol	99.4 ± 0.6	10 mg	001110
Nivalenol hydrate	98.6 ± 1.4	5 mg	001005
Nivalenol hydrate	98.6 ± 1.4	10 mg	001105
Ochratoxin A	99.5 ± 0.5	5 mg	001008
Ochratoxin A	99.5 ± 0.5	10 mg	001108
Patulin	99.7 ± 0.3	5 mg	001016
Sterigmatocystin	99.7 ± 0.3	5 mg	001017
T-2 Toxin	99.7 ± 0.3	5 mg	001011
T-2 Toxin	99.7 ± 0.3	10 mg	001111
Zearalenone	99.4 ± 0.6	5 mg	001009
Zearalenone	99.4 ± 0.6	10 mg	001109

## Matrix Reference Materials

Material	Conc. ( $\mu\text{g/mL}$ )	Amount	Cat. No.
Deoxynivalenol in Maize flour	474 $\pm$ 30 $\mu\text{g/kg}$	100 g	003001
Deoxynivalenol in Wheat flour	1062 $\pm$ 116 $\mu\text{g/kg}$	100 g	003004
Fumonisin B1 and B2 in Maize flour	2406 $\pm$ 612 $\mu\text{g/kg}$ (FB1) 630 $\pm$ 116 $\mu\text{g/kg}$ (FB2)	100 g	003003
Ochratoxin A in Wheat flour	2.7 $\pm$ 1.0 $\mu\text{g/kg}$	100 g	003006
Zearalenone in Maize flour	60 $\pm$ 9 $\mu\text{g/kg}$	100 g	003002

## Alkaloids

Component	Conc. ( $\mu\text{g/mL}$ )	Solvent	Amount	Cat. No.
Atropine	100	dried down	1 mL	ALK-001-1ML
Scopolamine	100	dried down	1 mL	ALK-003-1ML
Hyoscyamine	100	dried down	1 mL	ALK-004-1ML
Monocrotaline	100	dried down	1 mL	ALK-002-1ML
Retrorsine	50	dried down	1 mL	ALK-005-1ML
Senecionine	50	dried down	1 mL	ALK-006-1ML
Seneciophylline	50	dried down	1 mL	ALK-008-1ML
Senkirkine	50	dried down	1 mL	ALK-007-1ML
Anacrotalin	-	-	-	-
O-7-Angeloylheliotridin	-	-	-	-
Heliotridin	-	-	-	-
Otosenin	-	-	-	-
Rosmarinin	-	-	-	-

Coming Soon!

## Contaminants

Component	Conc. ( $\mu\text{g/mL}$ )	Solvent	Amount	Cat. No.
Melamine	100	acetonitrile/water	5 mL	CMT001
U-[ $^{13}\text{C}$ ]-Melamine	100	acetonitrile/water	1,2 mL	CMT002

## Medical and Veterinary Drugs

Component	Conc. ( $\mu\text{g/mL}$ )	Solvent	Amount	Cat. No.
Chloramphenicol	25	-	5 mL	-
Cyclosporine A	100	dried down	5 mL	ANT-004-5ML
Griseofulvine	100	dried down	5 mL	ANT-002-5ML
U-[ $^{13}\text{C}$ ]-Chloramphenicol	25	-	1.2 mL	-
U-[ $^{13}\text{C}_{62}$ ]-Cyclosporine A	25	dried down	1.2 mL	ANT-003-1.2ML
U-[ $^{13}\text{C}_{17}$ ]-Griseofulvine	25	dried down	1.2 mL	ANT-001-1.2ML

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