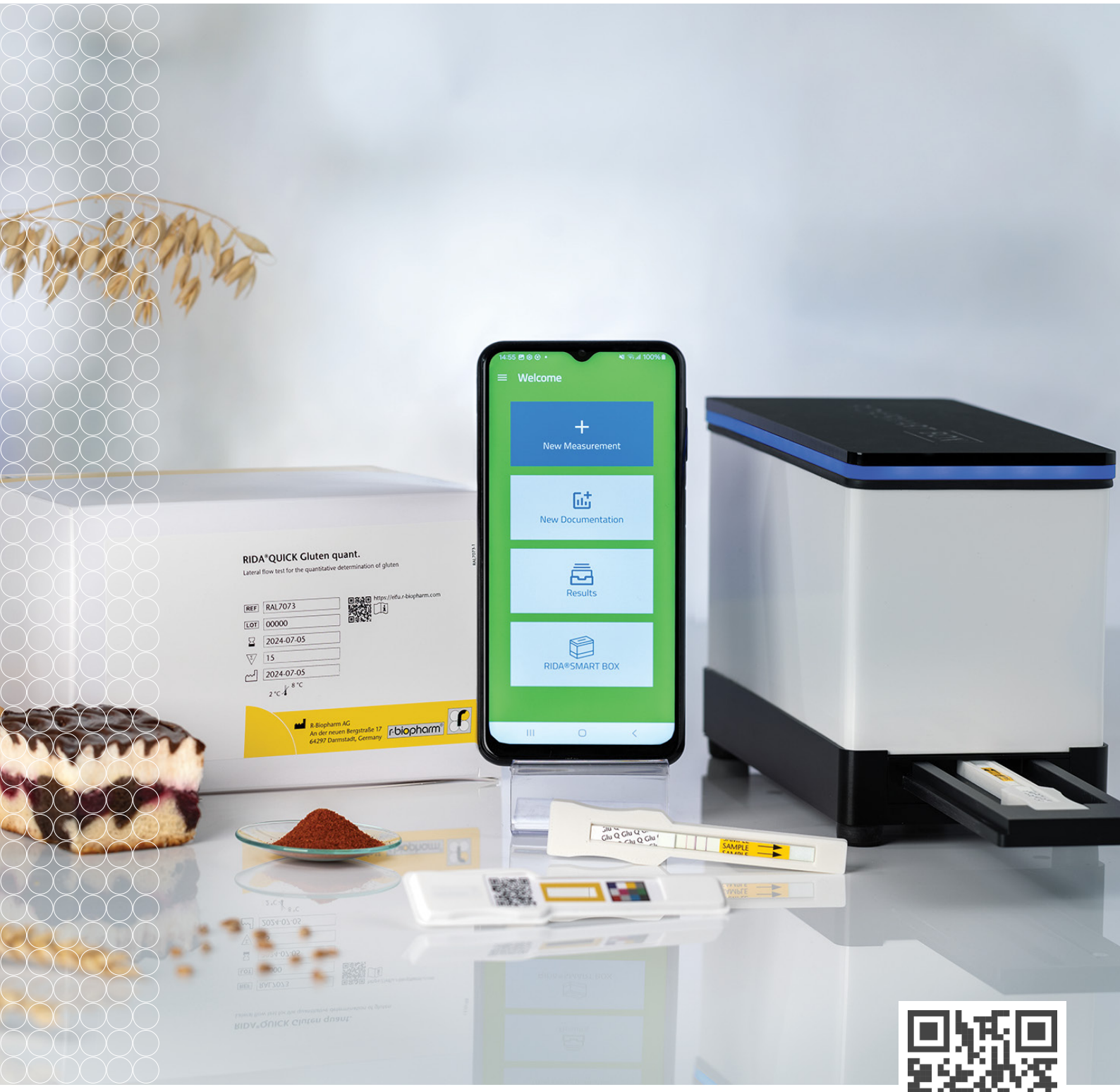
Product Catalogue 2026

Mycotoxins



r-biopharm.com.au/products/food-and-feed-analysis

Mycotoxin analysis

Mycotoxins are toxic secondary metabolites produced by filamentous fungi

Mycotoxins can occur in agricultural products, such as cereals and milk, as well as in foods made from them, such as bread and dairy products. Due to the frequent occurrence of mycotoxins and their severe toxic effects on animals and humans, maximum levels (MLs) for the major mycotoxins have been set by legislative bodies. In accordance with these guidelines, specific sample preparation and detection methods were developed. These include enzyme immunoassays, lateral flow devices or immunoaffinity columns.

Assays for the screening of mycotoxins in food and feed:

- RIDASCREEN® and EuroProxima enzyme immunoassays (ELISAs) use the high specificity of antigen and antibody interaction to determine and quantify mycotoxins by photometric measurement.
- RIDA®QUICK lateral flow tests are immuno-chromatographic tests for the quantitative determination of mycotoxins with the innovative RIDA®SMART APP software in combination with an approved Android smartphone or with the RIDA®SMART BOX and a smartphone.
- Test cards, AFLACARD and OCHRACARD, allow a qualitative screening of mycotoxins at various levels in food and feed commodities.
- Immunoaffinity columns (e.g. RIDA®, EASI-EXTRACT®, PREP® and RHONE®) use the high specificity of antigen and antibody interaction to isolate, purify and concentrate mycotoxins from many complex matrices prior to ELISA or chromatographic analysis.
- Solid phase extraction columns (PuriTox and QualiT Pure™) are used for the clean-up of cereal and cereal based samples prior to chromatographic analysis.

RIDASCREEN®

ELISA tests for up to 96 determinations

- Highly sensitive and specific

RIDASCREEN®FAST

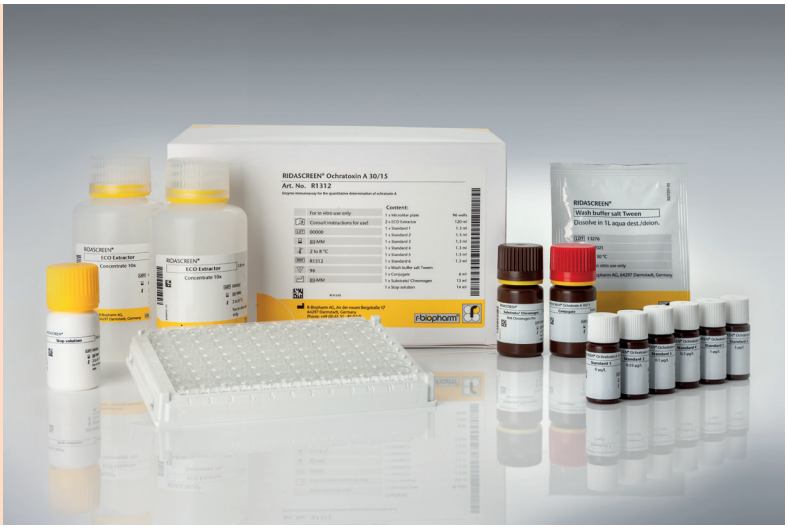
ELISA tests for up to 48/96 determinations

- Specific, fast and reliable

EuroProxima

ELISA tests for up to 96 determinations

- Specific mycotoxins and matrices
- Sensitive and fast

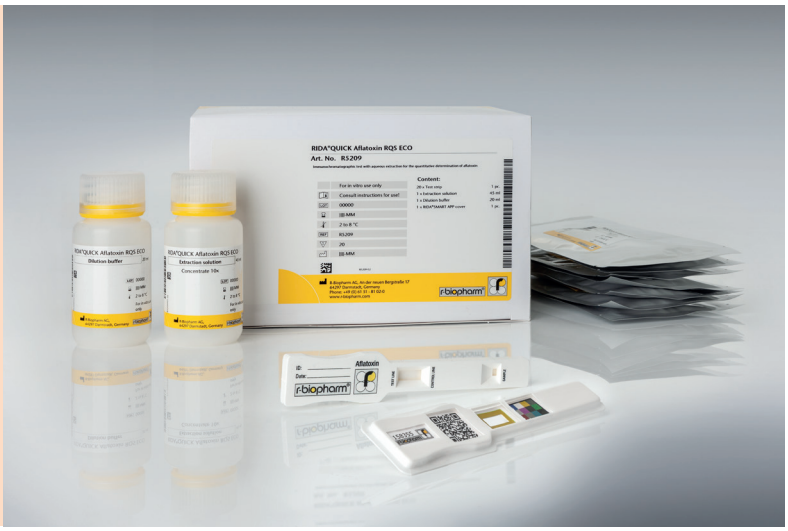


RIDA®QUICK

Lateral flow assay

- Easy and quantitative on-site testing
- Fast and reliable

Innovative smartphone-based evaluation of all quantitative tests with RIDA®SMART APP Software, also possible in combination with the RIDA®SMART BOX



RIDA®, EASI-EXTRACT®, PREP® and RHONE®

Immunoaffinity columns

- Single or multi-toxin analysis in conjunction with HPLC, LC-MS/MS or ELISA
- For a wide range of matrices

PuriTox and QualiT Pure™

Solid phase extraction columns

- Rapid purification prior to HPLC or LC-MS/MS

Mycotoxin analysis

	RIDASCREEN® EuroProxima	RIDA®QUICK	Rhône	RIDA®, EASI-EXTRACT® PREP®, RHONE®	PuriTox EASIMIP® QualiT Pure™
	ELISA	Lateral flow	Test cards	Immunoaffinity columns	Clean-up columns
Mycotoxins					
Aflatoxin					
• Total	●	●	●	●	●
• B1	●		●	●	
• M1	●			●	
Citrinin	●			●	
Deoxynivalenol	●	●		●	●
Fumonisin	●	●		●	●
Multi Toxin				●	●
Ochratoxin A	●	●	●	●	●
Patulin					●
T-2 Toxin	●			●	●
T-2 & HT-2 Toxin	●	●		●	●
Trichothecenes					●
Zearalenone	●	●		●	●

Aflatoxins

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
RIDASCREEN® Aflatoxin M1	Competitive enzyme immunoassay for quantitative determination of aflatoxin M1 in milk and milk powder* Detection limit: 5 ng/L (milk/milk powder), 50 ng/kg	96 determinations Incubation time: 1 h 15 min	R1121
RIDASCREEN® Aflatoxin B1 30/15	Competitive enzyme immunoassay for quantitative determination of aflatoxin B1 in cereals and feed Detection limit: 1 µg/kg (cereals), 1.7 µg/kg (soy), 2 µg/kg (dry cat food), 4 µg/kg (feed)	96 determinations Incubation time: 45 min	R1211
RIDASCREEN® Aflatoxin Total	Competitive enzyme immunoassay for quantitative determination of total aflatoxin in cereals and feed* Detection limit: 2.40 µg/kg (corn), < 1.75 µg/kg (barley, rice, wheat), 7.80 µg/kg (feed)	96 determinations Incubation time: 45 min	R4701
RIDASCREEN®FAST Aflatoxin	Competitive enzyme immunoassay for quantitative determination of total aflatoxins in cereals and feed* Detection limit: < 1.7 µg/kg	48 determinations Incubation time: 15 min	R5202
RIDASCREEN®FAST Aflatoxin SC	Competitive enzyme immunoassay for quantitative determination of total aflatoxins in cereals and feed Detection limit: 1.5 µg/kg (corn), 5.3 µg/kg (feed)	48 determinations Incubation time: 15 min	R9002
	Immunoaffinity columns		
AFLAPREP®	Immunoaffinity columns for sample clean-up prior to the analysis of aflatoxins B1, B2, G1 and G2 using HPLC or LC-MS/MS	10 columns (1 mL format) 50 columns (1 mL format) 500 columns (1 mL format)	RBRDP07 RBRP07 RBRP07/500
AFLAPREP® M WIDE	Immunoaffinity columns for sample clean-up prior to the analysis of aflatoxin M1 and M2 using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP124 RBRP124B
AFLARHONE®	Immunoaffinity columns for sample clean-up prior the analysis of aflatoxins B1, B2, G1 and G2 using HPLC or LC-MS/MS	25 columns (1 mL format) 100 columns (1 mL format)	RBRP56/25 RBRP56/100
AFLARHONE® WIDE	Immunoaffinity columns for sample clean-up prior the analysis of aflatoxins B1, B2, G1 and G2 using HPLC or LC-MS/MS	25 columns (3 mL format) 100 columns (3 mL format) 500 columns (3 mL format)	RBRP116/25 RBRP116/100 RBRP116/500
EASI-EXTRACT® AFLATOXIN	Immunoaffinity columns for sample clean-up prior to the analysis of aflatoxins B1, B2, G1, G2, M1, M2 and sterigmatocystin using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format) 500 columns (3 mL format)	RBRRP71 RBRRP70N RBRRP70N/500
RIDA® Aflatoxin column	Immunoaffinity columns for sample clean-up prior to ELISA	10 columns (1 mL format) 50 columns (1 mL format)	R5001 R5002
	Solid phase columns		
PuriTox Aflatoxin	Solid phase column for sample clean-up prior to the analysis of total aflatoxins using HPLC or LC-MS/MS	50 columns (syringe format)	RBRP25
	Lateral flow test strips		
RIDA®QUICK Aflatoxin RQS FGIS 2024-188	Immunochromatographic test for the quantitative determination of total aflatoxin in corn* in combination with RIDA®SMART APP software** Detection limit: < 2 µg/kg	20 strips Incubation time: 3 min	R5208
RIDA®QUICK Aflatoxin RQS ECO	Immunochromatographic test with aqueous extraction for the quantitative determination of total aflatoxin in corn in combination with RIDA®SMART APP software** Detection limit: < 2 µg/kg	20 strips Incubation time: 5 min	R5209
	Test cards		
AFLACARD B1	Qualitative detection of aflatoxin B1 at various screening levels	20 determinations	RBRP27
AFLACARD TOTAL	Qualitative detection of total aflatoxins at various screening levels	20 determinations	RBRP38

* Further applications on request.
** More information in chapter “Equipment and accessories” (p. 102 ff.).

Mycotoxin analysis

Citrinin

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
RIDASCREEN®FAST Citrinin	Competitive enzyme immunoassay for quantitative determination of citrinin in cereals and feed Detection limit: 15 µg/kg	48 determinations Incubation time: 25 min	R6302
	Immunoaffinity columns		
EASI-EXTRACT® CITRININ	Immunoaffinity columns for sample clean-up prior to the analysis of citrinin using HPLC or LC-MS/MS	10 columns (3 mL format) 25 columns (3 mL format)	RBRDP126 RBRP126

DON (Vomitoxin)

	ELISA microtiter plates		
RIDASCREEN® DON	Competitive enzyme immunoassay for quantitative determination of deoxynivalenol in cereals, malt, feed, beer and wort Detection limits: 18.5 µg/kg (cereals/malt/feed), 3.7 µg/kg (beer/wort)	96 determinations Incubation time: 45 min	R5906
RIDASCREEN®FAST DON AOAC-PTM 000701	Competitive enzyme immunoassay for quantitative determination of deoxynivalenol in cereals, malt and feed Detection limit: < 0.2 mg/kg	96 determinations 48 determinations Incubation time: 8 min	R5901 R5902
RIDASCREEN®FAST DON SC	Competitive enzyme immunoassay for quantitative determination of deoxynivalenol in cereals, malt and feed Detection limit: 0.074 mg/kg	48 determinations Incubation time: 8 min	R5905
	Immunoaffinity columns		
DONPREP®	Immunoaffinity columns for sample clean-up prior to the analysis of deoxynivalenol using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP50 RBRP50B
DONRHONE® WIDE	Immunoaffinity columns for sample clean-up prior the analysis of deoxynivalenol using HPLC or LC-MS/MS	25 columns (3 mL format) 100 columns (3 mL format)	RBRP141/25 RBRP141/100
	Lateral flow test strips		
RIDA®QUICK DON RQS ECO	Immunochromatographic test for the quantitative determination of deoxynivalenol in grain* (wheat, corn, oat, barley) in combination with RIDA®SMART APP software** Detection limit: 0.15 mg/kg	20 strips Incubation time: 3 min	R5911

Ergot Alkaloid

	Solid phase columns		
QualiT Pure™ Multi-Ergot Alkaloid MS	Solid phase column for sample clean-up prior to the analysis of ergocornine, ergocorninine, ergocristine, ergocristinine, ergocryptine, ergocryptinine, ergometrinine, ergosine, ergosinine, ergotamine, ergotaminine, ergovaline and dihydroergocristine using LC-MS/MS	50 columns (syringe format)	TC-QP2100-50

* Further applications on request.
** More information in chapter “Equipment and accessories” (p. 102 ff.).

Fumonisin

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
RIDASCREEN® Fumonisin ECO	Competitive enzyme immunoassay with aqueous extraction for quantitative analysis of total fumonisin in corn and feed Detection limit: 0.03 mg/kg (corn) and 0.04 mg/kg (feed)	96 determinations Incubation time: 45 min	R3411
RIDASCREEN®FAST Fumonisin ECO	Competitive enzyme immunoassay for quantitative determination of total fumonisins in corn and feed* Detection limit: < 0.25 mg/kg	48 determinations Incubation time: 8 min	R5603
	Immunoaffinity columns		
FUMONIPREP®	Immunoaffinity columns for sample clean-up prior to the analysis of fumonisins B1, B2 and B3 using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRDP31 RBRP31B
	Lateral flow test strips		
RIDA®QUICK Fumonisin RQS ECO	Immunochromatographic test for the quantitative determination of total fumonisin in corn* in combination with RIDA®SMART APP software** Detection limit: 0.3 mg/kg	20 strips Incubation time: 5 min	R5606

Multitoxin

	Immunoaffinity columns		
11+Myco MS-PREP® AOAC-PTM 112401	Immunoaffinity columns for the sample clean-up prior to the analysis of total aflatoxins, deoxynivalenol, fumonisin, ochratoxin A, T-2, HT-2 and zearalenone using LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP128 RBRP128B
AFLAOCHRA PREP®	Immunoaffinity columns for sample clean-up prior to the analysis of total aflatoxins and ochratoxin A using HPLC or LC-MS/MS	10 columns (1 mL format) 50 columns (1 mL format)	RBRP89 RBRP89B
AFLAOCHRA RHONE® WIDE	Immunoaffinity columns for sample clean-up prior the analysis of total aflatoxins and ochratoxin A using HPLC or LC-MS/MS	25 columns (3 mL format) 100 columns (3 mL format)	RBRP131/25 RBRP131/100
AO ZON PREP®	Immunoaffinity columns for sample clean-up prior to the analysis of total aflatoxins, ochratoxin A and zearalenone using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP112 RBRP112B
AOF MS-PREP®	Immunoaffinity columns for sample clean-up prior to the analysis of total aflatoxins, ochratoxin A and fumonisin using LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP115 RBRP115B
DZT MS-PREP®	Immunoaffinity columns for sample clean-up prior to the analysis of deoxynivalenol, zearalenone, T-2 and HT-2 using LC-MS/MS	10 columns (1 mL format) 50 columns (1 mL format)	RBRP73 RBRP73B
	Solid phase columns		
PuriTox AflaZON	Solid phase column for sample clean-up prior to the analysis of total aflatoxins and zearalenone using HPLC or LC-MS/MS	25 columns (syringe format)	TC-M160
QualiT Pure™ Multi-Mycotoxin	Solid phase column for sample clean-up prior to the analysis of aflatoxins, 3-acetyl DON, 15-acetyl DON, deoxynivalenol, DON 3-glucoside, de-epoxy DON, nivalenol, fusarenon X, diacetoxys, neosolaniol, T-2, HT-2, zearalenone, zearalenol, sterigmatocystin and patulin using LC-MS/MS	50 columns (syringe format)	TC-QP1000-50
QualiT Pure™ Multi-Tox MS	Solid phase column for sample clean-up prior to the analysis of aflatoxins, 3-acetyl DON, 15-acetyl DON, deoxynivalenol, DON 3-glucoside, de-epoxy DON, nivalenol, fusarenon X, diacetoxyscirpenol, neosolaniol, T-2, HT-2, zearalenone, zearalenol, sterigmatocystin, patulin, fumonisin, ochratoxin A, citrinin, beauvericin, phompsin and enniatins using LC-MS/MS	50 columns (syringe format)	TC-QP1100-50

* Further applications on request.
** More information in chapter “Equipment and accessories” (p. 102 ff.).

Mycotoxin analysis

Ochratoxin A

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
RIDASCREEN® Ochratoxin A 30/15	Competitive enzyme immunoassay for quantitative determination of ochratoxin A in corn, wheat, barley, rye, rice and feed* Detection limit: 0.5 µg/kg (corn/wheat), 0.4 µg/kg (barley), 1.2 µg/kg (rye), 0.8 µg/kg (rice), 1.6 µg/kg (feed)	96 determinations Incubation time: 45 min	R1312
RIDASCREEN®FAST Ochratoxin A	Competitive enzyme immunoassay for quantitative determination of ochratoxin A in cereals and feed* Detection limit: 1.3 µg/kg (corn), 1.5 µg/kg (wheat, barley), 2.0 µg/kg (oats) and 2.8 µg/kg (feed)	48 determinations Incubation time: 8 min	R5402
	Immunoaffinity columns		
OCHRAPREP®	Immunoaffinity columns for sample clean-up prior to the analysis of ochratoxin A using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format) 500 columns (3 mL format)	RBRP14 RBRP14B RBRP14/500
OCHRARHONE®	Immunoaffinity columns for sample clean-up prior the analysis of ochratoxin A using HPLC or LC-MS/MS	25 columns (1 mL format) 100 columns (1 mL format)	RBRP59/25 RBRP59/100
OCHRARHONE® WIDE	Immunoaffinity columns for sample clean-up prior the analysis of ochratoxin A using HPLC or LC-MS/MS	25 columns (3 mL format) 100 columns (3 mL format) 500 columns (3 mL format)	RBRP119/25 RBRP119/100 RBRP119/500
RIDA® Ochratoxin A column	Immunoaffinity columns for sample clean-up prior to ELISA	10 columns (1 mL format)	R1303
	Lateral flow test strips		
RIDA®QUICK Ochratoxin ECO	Immunochromatographic test with aqueous extraction for the quantitative determination of ochratoxin A in corn and wheat in combination with RIDA®SMART APP software** Detection limit: 2 µg/kg	20 strips Incubation time: 3 - 5 min	R5404
	Test cards		
OCHRACARD	Qualitative detection of ochratoxin A at various screening levels	20 determinations + 20 Immunoaffinity columns	RBRP48

Patulin

	Enzyme		
Pectinase	An enzyme for the clarification of cloudy apple juice and apple purée prior to patulin analysis	100 determinations	RBRP129
	Molecularly imprinted columns		
EASIMIP™ PATULIN	Molecularly imprinted columns for sample clean-up prior to the analysis of patulin using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP250 RBRP250B

* Further applications on request.
** More information in chapter “Equipment and accessories” (p. 102 ff.).

T-2 Toxin

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
RIDASCREEN® T-2 Toxin	Competitive enzyme immunoassay for quantitative determination of T-2 toxin in cereals and feed Measuring range: 3.5 - 56 µg/kg Detection limit: approx. 7 µg/kg (barley, rye, corn, wheat), approx. 11 µg/kg (oats) Measuring range: 35 - 560 µg/kg Detection limit: approx. 30 µg/kg (corn, wheat, oats)	96 determinations Incubation time: 1 h 30 min	R3801
RIDASCREEN®FAST T-2 Toxin	Competitive enzyme immunoassay for quantitative determination of T-2 toxin in cereals and feed Detection limit: < 20 µg/kg	48 determinations Incubation time: 15 min	R5302

T-2/HT-2 Toxin

	ELISA microtiter plates		
RIDASCREEN® T-2/HT-2 Toxin	Competitive enzyme immunoassay for quantitative determination of T-2/HT-2 toxin in oats, corn, barley and wheat Detection limit: 13 µg/kg (oats), 10 µg/kg (corn), 14 µg/kg (wheat), 11 µg/kg (barley)	96 determinations Incubation time: 45 min	R3805
	Immunoaffinity columns		
EASI-EXTRACT® T-2 & HT-2	Immunoaffinity columns for sample clean-up prior to the analysis of T-2 and HT-2 using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRP43 RBRP43B
	Lateral flow test strips		
RIDA®QUICK T-2/HT-2 RQS ECO	Immunochromatographic test for quantitative determination of T-2/HT-2 toxin in oats, corn, and wheat* in combination with RIDA®SMART APP software** Detection limit: 50 µg/kg	20 strips Incubation time: 5 min	R5304

* Further applications on request.
** More information in chapter “Equipment and accessories” (p. 102 ff.).

Mycotoxin analysis

Zearalenone

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
RIDASCREEN® Zearalenon	Competitive enzyme immunoassayfor quantitative determination of zearalenone in cereals, feed, beer, serum and urine* Detection limits: 50 ng/L (serum/urine), 250 ng/L (beer), 1750 ng/kg (cereals/feed)	96 determinations Incubation time: 2 h 30 min	R1401
RIDASCREEN®FAST Zearalenon	Competitive enzyme immunoassay for quantitative determination of zearalenone in cereals and feed Detection limit: 17 - 41 µg/kg	48 determinations Incubation time: 15 min	R5502
RIDASCREEN®FAST Zearalenon SC	Competitive enzyme immunoassay for quantitative determination of zearalenone in cereals Detection limit: 5 µg/kg	48 determinations Incubation time: 15 min	R5505
	Immunoaffinity columns		
ZONRHONE® WIDE	Immunoaffinity columns for sample clean-up prior the analysis of zearalenone using HPLC or LC-MS/MS	25 columns (3 mL format) 100 columns (3 mL format)	RBRP118/25 RBRP118/100
EASI-EXTRACT® ZEARALENONE	Immunoaffinity columns for sample clean-up prior to the analysis of zearalenone using HPLC or LC-MS/MS	10 columns (3 mL format) 50 columns (3 mL format)	RBRRP91 RBRRP90
	Lateral flow test strips		
RIDA®QUICK Zearalenon RQS	Immunochromatographic test for the quantitative determination of zearalenone in corn* in combination with RIDA®SMART APP software** Detection limit: approx. 50 µg/kg	20 strips Incubation time: 5 min	R5504

Accessories

	Lateral Flow test strips accessories		
RIDA®QUICK Mycotoxin ECO Extractor	Universal extraction buffer for RIDA®QUICK mycotoxin test kits	110 mL (10x concentration)	R5000

* Further applications on request.
** More information in chapter “Equipment and accessories” (p. 102 ff.).

EuroProxima – Mycotoxin analysis

Product	Description	No. of tests/amount	Art. No.
	ELISA microtiter plates		
EuroProxima Aflatoxin B1	Enzyme immunoassay for quantitative analysis of aflatoxin B1 in cereals (0.5 µg/kg), rice (0.4 µg/kg), egg (0.2 µg/kg), nuts (0.8 µg/kg), honey (0.2 µg/kg), mashed fruits (0.6 µg/kg), edible oils (0.2 µg/L), feed (1.0 µg/kg)	96 determinations Incubation time: 1 h 30 min	5121AFB
EuroProxima Aflatoxin B1 sensitive	Enzyme immunoassay for quantitative analysis of aflatoxin B1 in cereals (0.03 µg/kg), nuts (0.05 µg/kg), feed (2.5 µg/kg), infant food (0.03 µg/kg), liver (0.05 µg/kg), red pepper (0.5 µg/kg), serum (0.03 µg/L)	96 determinations Incubation time: 60 min	5121AFBS
EuroProxima PLUS Aflatoxin M1 sensitive	Enzyme immunoassay for quantitative analysis of aflatoxin M1 in milk (2.3 µg/L), cheese (3.6 µg/kg), butter (2.6 µg/kg), infant formula (5 µg/kg)	96 determinations Incubation time: 1 h 30 min	5121AFMS
EuroProxima PLUS Aflatoxin M1 fast	Enzyme immunoassay for quantitative analysis of aflatoxin M1 in milk (0.05 µg/L), cheese (< 0.1 µg/kg), butter (< 0.1 µg/kg)	96 determinations Incubation time: 45 min	5121AFMF
EuroProxima Total Aflatoxin	Enzyme immunoassay for quantitative analysis of aflatoxin total in cereals (unprocessed) (0.3 µg/kg), cereals (processed) (0.2 µg/kg), nuts (0.2 µg/kg), feed (0.4 µg/kg), infant food (0.016 µg/kg), liver (0.05 µg/kg), red pepper (1 µg/kg), serum (0.025 µg/kg), brown rice (0.2 µg/kg)	96 determinations Incubation time: 1 h 30 min	5121AFT
EuroProxima Ochratoxin A	Enzyme immunoassay for quantitative analysis of ochratoxin A in corn (1.4 µg/kg), wheat (1.7 µg/kg), red wine (0.3 µg/L), white wine (0.3 µg/L), must (0.3 µg/kg), roasted coffee (1.9 µg/kg), instant coffee (1.8 µg/kg), green coffee (1.2 µg/kg), cocoa (1.7 µg/kg), figs (0.7 µg/kg), raisins (3.2 µg/kg)	96 determinations Incubation time: 1 h 30 min	5121OTA

IMMUNOPREP® ONLINE automated analysis

Online automated analysis of mycotoxins in food and feed

IMMUNOPREP® ONLINE immunoaffinity cartridges are used together with the CHRONECT Symbiosis RIDA®CREST handling system to combine automated online sample preparation with quantitative analysis of the mycotoxin of interest.

The immunoaffinity cartridge contains a monoclonal antibody that is specific for the mycotoxin, coupled to a hydrophilic polymer that can withstand high pressure. The CHRONECT Symbiosis RIDA®CREST system enables the use of the IMMUNOPREP® ONLINE cartridges to be incorporated directly with HPLC, UHPLC or LC-MS/MS systems.

The IMMUNOPREP® ONLINE cartridge offers highly specific, sensitive, rapid and automated analysis. The sample application, washing and elution is performed online for up to 15 injections before the cartridge is automatically removed and replaced with a new one. This level of reuse has been found to offer optimum cartridge performance and removes the chance of interference or carryover.

Following extraction of the toxin from the sample with solvent, the extract is filtered, diluted and transferred to an autosampler vial. The diluted extract is injected onto the immunoaffinity cartridge and any toxin present in the sample is retained by antibody in the cartridge. Unbound matrix material is then automatically removed by washing the cartridge and the resulting wash goes to waste. Subsequently the toxins are released from the antibody following online elution with the mobile phase and the complete elution fraction from the cartridge is quantitatively analysed for the mycotoxin of interest.

IMMUNOPREP® ONLINE

- Improved quality assurance
- Improved traceability and efficiency
- Reusable cartridges
- Increased sample throughput
- New platform technology

IMMUNOPREP® ONLINE automated analysis

Product	Description	No. of tests/amount	Art. No.
Aflatoxins	**Online immunoaffinity cartridges**		
IMMUNOPREP® ONLINE AFLATOXIN	Online immunoaffinity cartridges used in conjunction with the CHRONECT Symbiosis RIDA®CREST handling system for the automated clean-up and analysis of aflatoxins B1, B2, G1 and G2 with HPLC	48 cartridges 96 cartridges	RBRP900/48 RBRP900
IMMUNOPREP® ONLINE AFLATOXIN M1	Online immunoaffinity cartridges used in conjunction with the CHRONECT Symbiosis RIDA®CREST handling system for the automated clean-up and analysis of aflatoxin M1 with HPLC	48 cartridges	RBRP904/48
DON (Vomitoxin)			
IMMUNOPREP® ONLINE DEOXYNIVALENOL	Online immunoaffinity cartridges used in conjunction with the CHRONECT Symbiosis RIDA®CREST handling system for the automated clean-up and analysis of deoxynivalenol with HPLC	48 cartridges	RBRP902/48
Ochratoxin A			
IMMUNOPREP® ONLINE OCHRATOXIN	Online immunoaffinity cartridges used in conjunction with the CHRONECT Symbiosis RIDA®CREST handling system for the automated clean-up and analysis of ochratoxin A with HPLC	48 cartridges 96 cartridges	RBRP901/48 RBRP901
Zearalenone			
IMMUNOPREP® ONLINE ZEARALENONE	Online immunoaffinity cartridges used in conjunction with the CHRONECT Symbiosis RIDA®CREST handling system for the automated clean-up and analysis of zearalenone with HPLC	48 cartridges	RBRP903/48

Reference material and standards

Trilogy® – naturally contaminated materials and mycotoxin standards

Trilogy® Analytical Laboratory is one of the few producers of certified, naturally contaminated reference materials and certified mycotoxin standards. Additionally, naturally contaminated quality control materials and analytical standards for daily quality assurance are available.

Trilogy® is a full service ISO 17025 accredited laboratory and accredited as a reference material producer according to ISO 17034. In cooperation with Trilogy®, we offer naturally contaminated certified reference materials and certified mycotoxin standards with metrological traceability. The fields of application of these highly characterized products range from method validation in ISO 17025 accredited labs to instrument calibration. Certified reference materials are available in 100 g packs of selected matrices. Both single and multitoxin options are available. Certified standard solutions contain one mycotoxin each, dissolved in organic solvents.

Trilogy® Quality Control Materials

These are naturally contaminated homogeneous products that contain a specific concentration of one or more mycotoxins. These materials have various applications including daily quality assurance, technician training, troubleshooting, proficiency testing and quality documentation. Trilogy® quality control materials are available containing the major mycotoxins in various matrices and levels of contamination: aflatoxin, ochratoxin, zearalenone, deoxynivalenol and fumonisin contaminated materials are available, as well as multitoxin QC materials. Commodities include corn and corn by-products, wheat, barley and malted barley, oats as well as complex products such as animal feed, pet food and spices. Samples are available in 100 g re-sealable foil packs.

Analytical Standards

Trilogy® also provides over 30 analytical standards for a wide range of mycotoxins, in solvents and in dry form. The Trilogy® analytical standards can be used for spiking experiments in order to check laboratory performance or for the analysis of mycotoxins by HPLC, GC or LC-MS/MS. Trilogy® dried standards are very easy to use. A simple reconstitution step reduces the need to handle hazardous mycotoxin powders. The liquid standards are ready to use and contain mycotoxins in dissolved specified organic solvents. They are both intended for use by customers who do not have a spectrophotometer or for those who want to ensure accurate HPLC/GC/LC-MS/MS determination of mycotoxins with minimal preparation and effort.

Trilogy®

Certified Trilogy® reference material (according to ISO 17034)

- Naturally contaminated
- Single and multitoxin options available
- Metrological traceability

Certified Trilogy® mycotoxin standards (according to ISO 17034)

- Ready-to-use liquids
- Single toxin solutions available
- Metrological traceability

Trilogy®

Quality control materials

- Naturally contaminated
- Single and multitoxin products available
- Cereals, corn, rice, and more
- Complex matrices like feed

Analytical standards

- Dried standard substances
- Ready-to-use standards, liquid
- Single and multitoxin options available

Mycotoxin analysis

	Trilogy®				Rhône
	Certified reference material	Certified liquid standards	Quality control material	Analytical standards	Standards
Mycotoxins					
Aflatoxin					
• Total			●	●	●
• B1		●		●	
• B2		●		●	
• G1		●		●	
• G2		●		●	
• M1				●	
Citrinin				●	
Diacetoxyscirpenol (DAS)				●	
DON		●	●	●	
Fumonisin			●	●	
Fusarenon-X				●	
Multitoxin	●		●		
Neosolaniol				●	
Nivalenol				●	
Ochratoxin A		●	●	●	●
Patulin				●	
T-2 Toxin				●	
HT-2 Toxin				●	
Trichothecenes				●	
Zearalenone		●	●	●	

Certified Trilogy® Reference Materials for mycotoxin analysis

Product	Description	Amount	Art. No.
Certified Reference Material	**Food or feed product**		
Certified Trilogy® Reference Material Multitoxin	Commodities, mycotoxins and contamination levels available upon request	100 g	TMCRM-MT100

Certified Trilogy® Liquid Standards for mycotoxin analysis

Certified Standards	Liquid		
Certified Trilogy® Liquid Standard Aflatoxin B1	10 µg/mL aflatoxin B1 in acetonitrile	5 mL	CTSL-131-5
Certified Trilogy® Liquid Standard Aflatoxin B2	10 µg/mL aflatoxin B2 in acetonitrile	5 mL	CTSL-1012-5
Certified Trilogy® Liquid Standard Aflatoxin G1	10 µg/mL aflatoxin G1 in acetonitrile	5 mL	CTSL-1013-5
Certified Trilogy® Liquid Standard Aflatoxin G2	10 µg/mL aflatoxin G2 in acetonitrile	5 mL	CTSL-1014-5
Certified Trilogy® Liquid Standard Deoxynivalenol	25 µg/mL deoxynivalenol in methanol	5 mL	CTSL-383-5
Certified Trilogy® Liquid Standard Ochratoxin A	5 µg/mL ochratoxin A in methanol	5 mL	CTSL-520-5
Certified Trilogy® Liquid Standard Zearalenone	10 µg/mL zearalenone in methanol	5 mL	CTSL-422-5

Mycotoxin analysis

Trilogy® Quality Control Material for mycotoxin analysis

Product	Description	Amount	Art. No.
QC Material	**Food or feed product**		
Trilogy® QC Material Aflatoxin	Commodities and contamination levels available upon request	100 g	TMQC-A100
Trilogy® QC Material Deoxynivalenol (DON)	Commodities and contamination levels available upon request	100 g	TMQC-D100 (Corn, Barley, Wheat and Oats)
Trilogy® QC Material Fumonisin	Commodities and contamination levels available upon request	100 g	TMQC-F100
Trilogy® QC Material Ochratoxin	Commodities and contamination levels available upon request	100 g	TMQC-O100 (Corn and Wheat)
Trilogy® QC Material Zearalenone	Commodities and contamination levels available upon request	100 g	TMQC-Z100 (Corn and Wheat)
Trilogy® QC Material Multitoxin	Commodities, mycotoxins and contamination levels available upon request	100 g	TMQC-MT100

Analytical Mycotoxin Standards for mycotoxin analysis

Product	Description	Amount	Art. No.
Aflatoxins	**Dried**		
Trilogy® Dried Standard Aflatoxins B1, B2, G1, G2	Aflatoxins B1, B2, G1, G2 (4:1:4:1) (2/0.5/2/0.5 µg/mL)	5 µg/mL in 10 mL after reconstitution	TS-108-10
Trilogy® Dried Standard Aflatoxin B1	Aflatoxin B1	25 µg/mL in 10 mL after reconstitution	TS-104-10
Trilogy® Dried Standard Aflatoxin B2	Aflatoxin B2	25 µg/mL in 10 mL after reconstitution	TS-105-10
Trilogy® Dried Standard Aflatoxin G1	Aflatoxin G1	25 µg/mL in 10 mL after reconstitution	TS-106-10
Trilogy® Dried Standard Aflatoxin G2	Aflatoxin G2	25 µg/mL in 10 mL after reconstitution	TS-107-10
Trilogy® Dried Standard Aflatoxin M1	Aflatoxin M1	1 µg/mL in 2 mL after reconstitution	TS-130-2
	Liquid		
Trilogy® Liquid Standard Aflatoxins B1, B2, G1, G2	Aflatoxin B1, B2, G1, G2 (4:1:4:1) 5 µg/mL (2/0.5/2/0.5 µg/mL) in acetonitrile	10 mL	TSL-108-10
AFLASTANDARD	Total aflatoxin standard (B1, B2, G1, G2) solution at 1000 ng/mL (250 ng/mL each) in methanol : acetonitrile (50:50 v/v)	6 mL 3 mL	RBRP22 RBRP22A
Trilogy® Liquid Standard Aflatoxin B1	Aflatoxin B1 25 µg/mL in acetonitrile	10 mL	TSL-104-10
Trilogy® Liquid Standard Aflatoxin B2	Aflatoxin B2 25 µg/mL in acetonitrile	10 mL	TSL-105-10
Trilogy® Liquid Standard Aflatoxin G1	Aflatoxin G1 25 µg/mL in acetonitrile	10 mL	TSL-106-10
Trilogy® Liquid Standard Aflatoxin G2	Aflatoxin G2 25 µg/mL in acetonitrile	10 mL	TSL-107-10
Trilogy® Liquid Standard Aflatoxin M1	Aflatoxin M1 0.5 µg/mL in acetonitrile	2 mL	TSL-143-2

Mycotoxin analysis

Analytical Mycotoxin Standards for mycotoxin analysis

Product	Description	Amount	Art. No.
Citrinin	**Dried**		
Trilogy® Dried Standard Citrinin	Citrinin	5 µg/mL in 5 mL after reconstitution	TS-904-5
DAS	**Dried**		
Trilogy® Dried Standard Diacetoxyscirpenol (DAS)	Diacetoxyscirpenol (DAS)	100 µg/mL in 5 mL after reconstitution	TS-316-5
DON (Vomitoxin)	**Dried**		
Trilogy® Dried Standard DON	Deoxynivalenol	50 µg/mL in 10 mL after reconstitution	TS-310-10
Trilogy® Dried Standard Deoxynivalenol (DON)	Deoxynivalenol (DON)	100 µg/mL in 10 mL after reconstitution	TS-317-10
Trilogy® Dried Standard 3-Acetyl Deoxynivalenol	3-Acetyl deoxynivalenol	100 µg/mL in 5 mL after reconstitution	TS-342-5
Trilogy® Dried Standard 15-Acetyl Deoxynivalenol	15-Acetyl deoxynivalenol	100 µg/mL in 5 mL after reconstitution	TS-343-5
	Liquid		
Trilogy® Liquid Standard Deoxynivalenol (DON)	Deoxynivalenol (DON) 100 µg/mL in methanol	10 mL	TSL-317-10
Fumonisins	**Dried**		
Trilogy® Dried Standard Fumonisin B1, B2	Fumonisin B1, Fumonisin B2 (10:3)	100/30 µg/mL in 2 mL after reconstitution	TS-202-2
	Liquid		
Trilogy® Liquid Standard Fumonisin B1, B2	Fumonisin B1, Fumonisin B2 (10:3) 100/30 µg/mL in acetonitrile/water (50/50)	2 mL	TSL-202-2
Trilogy® Liquid Standard Fumonisin B1	Fumonisin B1 100 µg/mL in acetonitrile/water (50/50)	2 mL	TSL-204-2
Trilogy® Liquid Standard Fumonisin B2	Fumonisin B2 100 µg/mL in acetonitrile/water (50/50)	2 mL	TSL-205-2
Fusarenon X	**Dried**		
Trilogy® Dried Standard Fusarenon-X	Fusarenon-X	100 µg/mL in 5 mL after reconstitution	TS-351-5
Neosolaniol	**Dried**		
Trilogy® Dried Standard Neosolaniol	Neosolaniol	100 µg/mL in 5 mL after reconstitution	TS-328-5
Nivalenol	**Dried**		
Trilogy® Dried Standard Nivalenol	Nivalenol	100 µg/mL in 5 mL after reconstitution	TS-344-5
Ochratoxin A	**Dried**		
Trilogy® Dried Standard Ochratoxin A	Ochratoxin A	1 µg/mL in 5 mL after reconstitution	TS-503-5
	Liquid		
Trilogy® Liquid Standard Ochratoxin A	Ochratoxin A 1 µg/mL in methanol	5 mL	TSL-503-5
OCHRASTANDARD	Ochratoxin A standard solution at a concentration of 1000 ng/mL in methanol	6 mL 3 mL	RBRP11 RBRP11A

Analytical Mycotoxin Standards for mycotoxin analysis

Product	Description	Amount	Art. No.
Patulin	**Liquid**		
Trilogy® Liquid Standard Patulin	Patulin 25 µg/mL in acetonitrile	5 mL	TSL-601-5
T-2/HT-2	**Dried**		
Trilogy® Dried Standard T-2 Toxin	T-2 toxin	100 µg/mL in 5 mL after reconstitution	TS-314-5
Trilogy® Dried Standard HT-2 Toxin	HT-2 toxin	100 µg/mL in 5 mL after reconstitution	TS-333-5
	Liquid		
Trilogy® Liquid Standard T-2 Toxin	T-2 Toxin 100 µg/mL in acetonitrile	5 mL	TSL-314-5
Trilogy® Liquid Standard HT-2 Toxin	HT-2 Toxin 100 µg/mL in acetonitrile	5 mL	TSL-333-5
Trichothecenes – Multitoxines	**Liquid**		
Trilogy® Liquid Standard Type A & B Trichothecenes	Type A & B Trichothecenes (fusarenon X, deoxynivalenol, nivalenol, 3- & 15-acetyl DON, HT-2 toxin, diacetoxyscirpenol, T-2 toxin, neosolaniol) 100 µg/mL in acetonitrile	2 mL	TSL-307-2
	Dried		
Trilogy® Dried Standard Type A Trichothecenes	Type A Trichothecenes (diacetoxyscirpenol, HT-2 toxin, T-2 toxin, neosolaniol)	10 µg/mL in 5 mL after reconstitution	TS-353-2
Zearalenone	**Dried**		
Trilogy® Dried Standard Zearalenone	Zearalenone	25 µg/mL in 10 mL after reconstitution	TS-401-10
	Liquid		
Trilogy® Liquid Standard Zearalenone	Zearalenone 25 µg/mL in methanol	10 mL	TSL-401-10

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