

## Technical Data Sheet

# AO ZON PREP®

Art. No. P112 / P112B

## 1. Kit Contents

10 or 50 wide format immunoaffinity columns for use with HPLC or LC-MS/MS.

## 2. Specifications

Specificity	Aflatoxin B1 (AFT B1) Ochratoxin A (OTA) β-Zearalenol (β-ZOL) Zearanol	Aflatoxin B2 (AFT B2) Ochratoxin B (OTB) Zearalanone (ZAN)	Aflatoxin G1 (AFT G1) Zearalenone (ZON) α-Zearalanol (α-ZAL)	Aflatoxin G2 (AFT G2) α-Zearalenol (α-ZOL) β-Zearalanol (β-ZAL)
	May also cross react with other metabolites and masked mycotoxins.			
Solvent Tolerance	Acetonitrile Methanol	12 % 16 %		
LOD*	B1 B2 G1 G2 OTA ZON	0.031 ng/ml 0.015 ng/ml 0.015 ng/ml 0.007 ng/ml 0.05 ng/ml 1.67 ng/ml		
Recoveries for Spiked Solutions	Meets EU Method Performance criteria of 70 - 110 % RBR QC Specifications: B1 85 - 110 % B2 85 - 110 % G1 85 - 110 % G2 80 - 110 % OTA 85 - 110 % ZON 85 - 110 %			
Intra-Assay CV	<10 %			
Inter-Assay CV	<10 %			
Storage Conditions	2 - 8 °C (or at 21 - 25 °C)			
Shelf Life	18 Months (or 12 Months)			

\* LOD determined by RBR and is dependent on method, HPLC conditions, derivatisation technique and HPLC equipment used.

## 3. Method Information

Extraction	Acetonitrile or Methanol Extraction solvent can vary depending on commodity analysed.		
Wash Solution	Phosphate Buffered Saline (PBS)		
Elution Solution	100 % Methanol		
Injection Volume	100 µl		
HPLC System	Fluorescence		
HPLC Pump	AFT and OTA ZON	Gradient Isocratic	
Analytical Column	Inertsil® ODS-3V 5 µm, 150 mm x 4.6 mm		
Derivatisation	Yes (KOBRA® CELL or alternative method)		

## Technical Data Sheet

### AO ZON PREP®

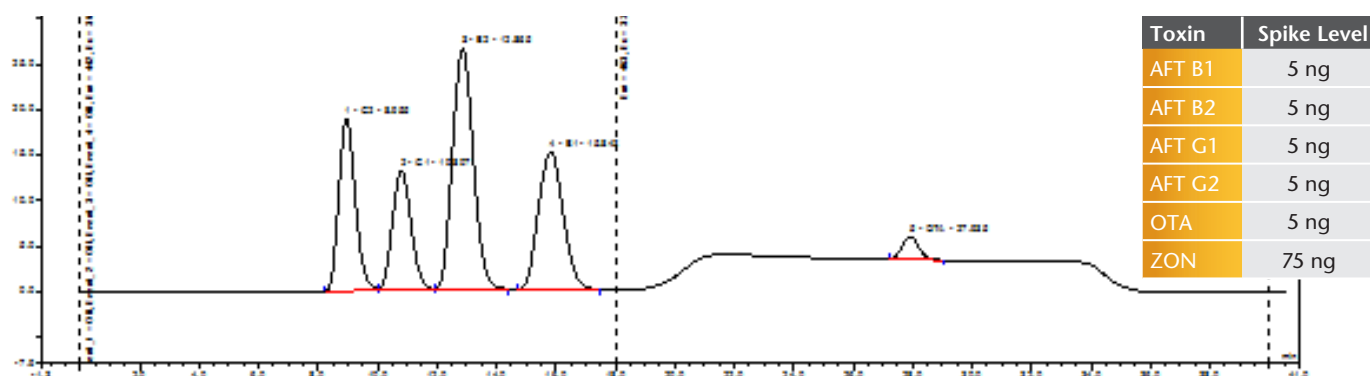
Art. No. P112 / P112B

#### 4. Recovery Data Using Recommended Methods

Sample	Contamination	Number of Analyses	Average B1 Recovery	Average B2 Recovery	Average G1 Recovery	Average G2 Recovery	Average OTA Recovery	Average ZON Recovery
Maize	Spiked at 4 ppb AFT, 3 ppb OTA, 75 ppb ZON	6	93 %	90 %	87 %	91 %	97 %	94 %
Rye	Spiked at 4 ppb AFT, 3 ppb OTA, 75 ppb ZON	6	106 %	107 %	91 %	94 %	105 %	101 %
Wheat	Spiked at 4 ppb AFT, 3 ppb OTA, 75 ppb ZON	6	92 %	98 %	95 %	102 %	100 %	97 %
Beer	Spiked at 2 ppb AFT, 2 ppb OTA, 75 ppb ZON	3	96 %	104 %	87 %	91 %	97 %	98 %
Baby Food	Spiked at 10 ppb AFT, 200 ppb OTA, 1,600 ppb ZON	3	85 %	88 %	84 %	85 %	98 %	100 %
Animal Feed	Spiked at 40 ppb AFT, 50 ppb OTA, 2,000 ppb ZON	3	91 %	97 %	82 %	90 %	93 %	99 %

Methods for the analysis of the above commodities are available on request. Various posters are available providing additional validation data. Please contact your local R-Biopharm distributor for further information.

#### 5. Example Chromatogram: Aflatoxins and Ochratoxin (Spiked Solution)



#### Example Chromatogram: Zearalenone (Spiked Solution)

