AFLAPREP® M WIDE

Art. No. P124 / P124B

1. Kit Contents

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

2. Specifications

Specificity	Aflatoxin M1 (AFT M1)	Aflatoxin M2 (AFT M2)
	May also cross react with other metabolites.	
Solvent Tolerance	Methanol	30 %
LOD*	M1	0.05 ng/ml
Recoveries for Spiked Solutions	Meets EU Method Performance criteria of 70 - 110 %	
	RBR QC Specification:	
	M1	80 - 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 and HPLC equipment used.

3. Method Information

Extraction	None or Methanol Extraction solvent can vary depending on commodity analysed.
Wash Solution	Phosphate Buffered Saline (PBS)
Elution Solution	60 % Acetonitrile : 40 % Methanol
Injection Volume	100 µl
HPLC System	Fluorescence
HPLC Pump	Isocratic
Analytical Column	Inertsil® ODS-3V 5 µm, 150 mm x 4.6 mm
Derivatisation	N/A

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4. Recovery Data Using Recommended Methods

Sample	Contamination	Number of Analyses	Average AFT M1 Recovery
Full Fat Milk	Spiked at 0.025 ppb	6	107 %
Infant Formula	Spiked at 0.025 ppb	6	100 %
Cottage Cheese	Spiked at 0.2 ppb	6	93 %
Goat's Cheese	Spiked at 0.2 ppb	6	89 %
Blue Stilton	Spiked at 0.2 ppb	6	88 %
Cheddar	Spiked at 0.2 ppb	6	82 %
Eski Kashar	Spiked at 0.2 ppb	6	92 %
Hard Cheese	Spiked at 0.2 ppb	6	87 %
Spoiled Milk	Spiked at 0.05 ppb	6	88 %
Ice Cream	Spiked at 0.05 ppb	6	90 %
Strawberry Milk	Spiked at 0.05 ppb	6	99 %
Chocolate Milk	Spiked at 0.08 ppb	6	98 %
Goats' Milk Butter	Spiked at 0.05 ppb	3	95 %
Yoghurt	Spiked at 0.05 ppb	3	105 %
Baby Food	Spiked at 0.025 ppb	3	74 %

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 (Spiked Solution at 4 ng)