

Technical Data Sheet



EASI-EXTRACT® FOLIC ACID

Art. No. P81 / P81B

1. Kit Contents

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

2. Specifications

Specificity	Folic Acid (Used to measure added Folic Acid)	
LOD*	Folic Acid	10 ng/ml
Recoveries for Spiked Solutions	RBR QC Specification: Folic Acid	90 - 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	0.1 M Sodium Phosphate Buffer
Enzymes	Pancreatin
Additional Requirements	10 % Sodium Ascorbate Solution
Clean-Up Time	3 hours prior to detection by HPLC or LC-MS/MS
Wash Solution	Water
Elution Solution	30 % Acetonitrile containing 0.2 % TFA
Injection Volume	100 µl
HPLC System	UV
HPLC Pump	Isocratic
Analytical Column	Aquasil™ C18 5 µm, 150 mm x 4.6 mm
Derivatisation	N/A

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4. Recovery Data Using Recommended Methods

Sample	Folic Acid Claim	Number of Analyses	Folic Acid Concentration Recovered
Breakfast Cereal	166 µg/100 g	6	239 µg/100 g
Milk	40 µg/100 g	3	44 µg/100 g
Cereal Based Infant Formula	70 µg/100 ml	3	76 µg/100 ml
Chocolate and Cereal Snack Bar	170 µg/100 g	6	189 µg/100 g
Premix	167,000 µg/100 g	6	223,800 µg/100 g
Yoghurt	80 µg/100 g	6	91 µg/100 g
Biscuits	100 µg/100 g	6	74 µg/100 g
Flour	86 µg/100 g	3	90 µg/100 g
Energy Bars	104.5 µg/100 g	3	112.3 µg/100 g

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

5. Example Chromatogram (Spiked Solution at 100 ng)

