

## Technical Data Sheet

# EASI-EXTRACT® BIOTIN

Art. No. P82 / P82B

## 1. Kit Contents

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

## 2. Specifications

Specificity	Biotin (Used to measure total biotin content)	
LOD*	Biotin	25 ng/ml
Recoveries for Spiked Solutions	RBR QC Specification: Biotin	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 and HPLC equipment used.

## 3. Method Information

Buffer	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	Phosphate Buffered Saline (PBS) and Water
Elution Solution	100 % Methanol
Injection Volume	100 µl
HPLC System	UV
HPLC Pump	Gradient
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	Biotin Claim	Number of Analyses	Biotin Concentration Recovered
NIST Reference Sample	192 µg/100 g	6	163 µg/100 g
Infant Breakfast Cereal	10 µg/100 g	6	13 µg/100 g
Liquid Milk	100 - 200 µg/100 ml	6	128 µg/100 ml
Baby Formula	10 - 50 µg/100 g	6	24 µg/100 g
Infant Formula	12 µg/100 g	6	10 µg/100 g
Energy Bars	9.4 µg/100 g	3	190.9 µg/100 g
Beer	25 µg/100 ml (Spike)	3	18.8 µg/100 ml

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 250 ng)

