

# EASI-EXTRACT® VITAMIN B12 (LGE)

Art. No. P88 / P88B

## 1. Kit Contents

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

### 2. Specifications

Specificity	Cyanocobalamin (Used to measure total vitamin B12)		
LOD*	Cyanocobalamin	5 ng/ml	
Recoveries for Spiked Solutions	RBR QC Specification: Cyanocobalamin	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

Approval	AOAC Official Method 2011.08 (First Action) AOAC Official Method 2014.02 (First Action)			
Extraction	Sodium Acetate Buffer			
Enzymes	α-amylase			
Additional Requirements	1 % Sodium or Potassium Cyanide Solution			
Clean-Up Time	2 hours prior to detection by HPLC or LC-MS/MS			
Wash Solution	Water			
Elution Solution	100 % Methanol			
Injection Volume	100 µl			
HPLC System	UV			
HPLC Pump	Isocratic			
Analytical Column	ACE AQ-C18 3 μm, 150 mm x 3 mm			
Derivatisation	N/A			



# AND IN

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# 4. Recovery Data Using Recommended Methods

Sample	Vitamin B12 Claim	Number of Analyses	Vitamin B12 Concentration Recovered
Infant Formula	1.29 μg/100 g	6	1.72 μg/100 g
Infant Formula	1.20 μg/100 g	6	1.43 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 150 ng)

