ISO 20634:2015-11 (E)

Infant formula and adult nutritionals - Determination of vitamin B12 by reversed phase high performance liquid ch romatography (RP-HPLC)

Contents

Page

Foreword iv

1 Scope 1

2 Termsanddefinitions 1

3 Principle 1

4 Reagents and materials 1

5 Apparatus 4

6 Procedure 5
6.1 General 5
6.2 Sample preparation 5
6.2.1 General 5
6.2.2 Extraction 6
6.2.3 Sample concentration 6
6.3 HPLC analysis 7
6.3.1 System setup and configuration 7
6.3.2 Instrument operation conditions 7

7 Calculations 8
7.1 General 8
7.2 Calculation of standard solution concentrations 9
7.3 Preparation of standard curves 9
7.4 Calculation of vitamin B12 concentrations in sample solutions 9

Annex A (informative) Examples of chromatograms 10

Annex B (informative) Precision data 11

Annex C (informative)ExampleofSPEcartridgequalificationprocedure 13

Bibliography 14