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

*Formules infantiles et produits nutritionnels pour adultes —
Détermination de la teneur en vitamine B₁₂ par chromatographie
liquide haute performance en phase inverse (CLHP-PI)*





COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
1 Scope	1
2 Terms and definitions	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 B ₁₂ concentrations in sample solutions.....	9
Annex A (informative) Examples of chromatograms	10
Annex B (informative) Precision data	11
Annex C (informative) Example of SPE cartridge qualification procedure	13
Bibliography	14