

INTERNATIONAL  
STANDARD

ISO  
3890-2

IDF  
75-2

Second edition  
2009-10-15

---

**Milk and milk products — Determination  
of residues of organochlorine  
compounds (pesticides) —**

**Part 2:  
Test methods for crude extract  
purification and confirmation**

*Lait et produits laitiers — Détermination des résidus de composés  
organochlorés (pesticides) —*

*Partie 2: Méthodes d'essai pour la purification des extraits bruts et tests  
de confirmation*

ISO/DIS 3890-2:2009



Reference numbers  
ISO 3890-2:2009(E)  
IDF 75-2:2009(E)

© ISO and IDF 2009

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. Neither the ISO Central Secretariat nor the IDF accepts any liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies and IDF national committees. In the unlikely event that a problem relating to it is found, please inform the ISO Central Secretariat at the address given below.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO and IDF 2009

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO or IDF at the respective address below.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

International Dairy Federation  
Diamond Building • Boulevard Auguste Reyers 80 • B-1030 Brussels  
Tel. + 32 2 733 98 88  
Fax + 32 2 733 04 13  
E-mail [info@fil-idf.org](mailto:info@fil-idf.org)  
Web [www.fil-idf.org](http://www.fil-idf.org)

## Contents

Page

Foreword .....	iv
1 Scope .....	1
2 Normative references .....	1
3 Method A: Liquid-liquid partitioning with acetonitrile and clean-up on a Florisil column .....	1
4 Method B: Liquid-liquid partitioning with dimethylformamide (DMF) and clean-up on an alumina column .....	4
5 Method C: Liquid-liquid partitioning with dimethylformamide (DMF) and clean-up on a Florisil <sup>1)</sup> column .....	6
6 Method D: Column chromatography on aluminium oxide of precisely defined activity .....	8
7 Method E: Column chromatography on alumina column .....	11
8 Method F: Column chromatography on partially deactivated Florisil <sup>1)</sup> .....	13
9 Method G: Column chromatography on partially deactivated silica gel .....	15
10 Method H: Gel-permeation chromatography .....	17
11 Confirmatory tests and additional clean-up procedure .....	18
12 Additional clean-up procedure .....	27
Bibliography .....	29