

First edition
2017-02

**Microbiology of the food chain —
Horizontal method for the detection,
enumeration and serotyping of
Salmonella —**

**Part 1:
Detection of *Salmonella* spp.**

*Microbiologie de la chaîne alimentaire — Méthode horizontale
pour la recherche, le dénombrement et le sérotypage des
Salmonella —*

*Partie 1: Recherche des *Salmonella* spp.*



Reference number
ISO 6579-1:2017(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, 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	v
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
4.1 General	2
4.2 Pre-enrichment in non-selective liquid medium	2
4.3 Enrichment in/on selective media	2
4.4 Plating out on selective solid media	2
4.5 Confirmation	3
5 Culture media, reagents, and antisera	3
6 Equipment and consumables	3
7 Sampling	4
8 Preparation of test sample	4
9 Procedure (see diagrams in Annex A)	4
9.1 Test portion and initial suspension	4
9.2 Non-selective pre-enrichment	4
9.3 Selective enrichment	5
9.3.1 General	5
9.3.2 Procedure for food, animal feed samples, and environmental samples from the food production area	5
9.3.3 Procedure for samples from the primary production stage	5
9.4 Plating out	6
9.4.1 General	6
9.4.2 Procedure for food, animal feed samples, and environmental samples from the food production area	6
9.4.3 Procedure for samples from the primary production stage	6
9.5 Confirmation	7
9.5.1 General	7
9.5.2 Selection of colonies for confirmation	7
9.5.3 Biochemical testing	8
9.5.4 Serological testing	11
9.5.5 Interpretation of biochemical and serological reactions	11
9.5.6 Serotyping	12
10 Expression of results	12
11 Performance characteristics of the method	12
11.1 Interlaboratory studies	12
11.2 Sensitivity	12
11.3 Specificity	12
11.4 LOD ₅₀	12
12 Test report	13
Annex A (normative) Diagrams of the procedures	14
Annex B (normative) Culture media and reagents	17
Annex C (informative) Method validation studies and performance characteristics	32
Annex D (normative) Detection of <i>Salmonella enterica</i> subspecies <i>enterica</i> serovars Typhi and Paratyphi	38