

ISO 18744:2016-04 (E)

Microbiology of the food chain - Detection and enumeration of *Cryptosporidium* and *Giardia* in fresh leafy green vegetables and berry fruits

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Reagents	2
6	Apparatus	3
7	Sampling and transport	4
7.1	Sampling	4
7.2	Transport	4
7.3	Receipt of samples	4
7.4	Storage	4
7.5	Preparation of test sample	4
8	Procedure	5
8.1	Removal of parasites from leafy green vegetables	5
8.2	Removal of parasites from berry fruits	6
8.3	Immunomagnetic separation (IMS)	7
8.4	Sample staining	7
8.5	Microscopy	8
8.5.1	General comments	8
8.5.2	Examination of sample preparations using epifluorescence microscopy	9
8.5.3	Examination of sample preparations using DIC microscopy	11
9	Quality control procedures	12
9.1	General	12
9.2	Inclusion and interpretation of controls	12
9.3	Equipment cleaning	13
10	Reporting of results	13
10.1	Expression of results	13
10.2	Test report	13
Annex A (normative) Preparation of reagents		15
Annex B (normative) Preparation of positive process control suspensions		17
Annex C (informative) Percentage recoveries achieved by the methods		19
Bibliography		20