

Certified Reference Material Data

This certificate is designed in accordance with ISO Guide 31:2015

General

Storage:2-8°C. Do not freeze.Catalogue Number:ESC100Production Date:14 February 2024Expiration Date:26 June 2024Volume:0.601 ml +/- 12 ulSuspension media:Buffered saline solution				
Catalogue Number:ESC100Production Date:14 February 2024Expiration Date:26 June 2024Volume:0.601 ml +/- 12 ulSuspension media:Buffered saline solution	Safety:	This product is non-hazardous.		
Production Date:14 February 2024Expiration Date:26 June 2024Volume:0.601 ml +/- 12 ulSuspension media:Buffered saline solution	Storage:	2-8°C. Do not freeze.		
Expiration Date:26 June 2024Volume:0.601 ml +/- 12 ulSuspension media:Buffered saline solution	Catalogue Number:	ESC100		
Volume:0.601 ml+/-12 ulSuspension media:Buffered saline solution	Production Date:	14 February 2024		
Suspension media: Buffered saline solution	Expiration Date:	26 June 2024		
	Volume:	0.601 ml +/- 12 ul		
Sterilisation method: Gamma Irradiation.	Suspension media:	Buffered saline solution		
	Sterilisation method:	Gamma Irradiation.		



Certificate of Analysis

Batch Number: B 807

Counts (Method Ref: CG014)	Mean (i)	St.Dev.(ii)	Expanded Uncertainty(iii)
Cryptosporidium count	99	1.3	4.0
DAPI staining:			
Cryptosporidium % +ve	100	%	

The Mean CFU quantification (i) and associated SD (ii) are traceable to counts using flow cytometry

Stock specifics*

Organism:	Cryptosporidium parvum
Strain:	Iowa
Source:	Bovine
Shed date:	30 January 2024
Purification method:	Discontinuous sucrose and cesium chloride centrifugation gradients.

Certified Values and Uncertainties

Enumeration Method

A) CG-014

The count values have been obtained by taking a randomised significant sample of each batch and enumerating cysts and oocysts by flow cytometric analysis.

B) Stability Ref: Exp #1421

Stability testing has been conducted on batch ESCG100-32 of EasySeed™ at 4 months and 12 days. EasySeed™ with an assigned property value in terms of its known count value is used as a quality control reference material. This CRM has been produced by flow cytometry and is traceable to natural numbers.

i) The certified value represents the unweighted mean counts from a statistically relevant number of samples covering the entire product batch. The characterization uncertainty μ (characterization) represents the dispersion of measurement values, calculated as standard deviation.
ii) The Standard Deviation is a measure of variability within the batch.
iii)Combined standard uncertainty, μ(CRM), is calculated as the square root of the sum of squares of the individual contributions

(characterization, homogeneity, stability), according to: $\mu(CRM) = \sqrt{\mu_{clar}^2 + \mu_{homogeneity}^2 + \mu_{stability}^2}$

The Expanded Uncertainty, U(CRM) is reported at the 95% Confidence Level with a coverage factor k= 2: U(CRM) = μ (CRM) * k.

* Organism identification is not certified.





Accredited for compliance with ISO 17034 Accredited Reference Material Producer

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of reference materials certificates

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Storage and Handling: Store EasySeed[™] at 2-8°C.

Description:

EasySeed[™] contains non viable precise known counts of *Cryptosporidium*.

Intended Use:

EasySeed[™] is a biological certified reference material containing a precise number of non-viable *Cryptosporidium*. It is designed for use as a quantitative quality control sample.

Instructions for Use: (refer to the corresponding Product Insert for more details)

Seeding the sample (use one tube of EasySeed[™])

- 1. Remove and keep the tube cap.
- 2. Add 2mL of 0.05% (v/v) Tween 20 to the tube.
- 3. Replace cap and vortex for 20 seconds.
- 4. Remove and keep cap and pour tube contents into sample.
- 5. Add 3mL of reagent grade water to the empty tube.
- 6. Replace cap and vortex for 20 seconds.
- 7. Remove and keep cap and pour tube contents into sample.
- 8. Repeat steps 5, 6 and 7 once more.

Sample Analysis

- 9. Analyze the sample as per the laboratory Standard Operating Procedure.
- 10. Record the number of fluorescent *Cryptosporidium* detected.
- 11. Calculate the *Cryptosporidium* recovery using the following formula:

Cryptosporidium Recovery (%) =

<u>Cryptosporidium detected x 100</u> number of Cryptosporidium in EasySeed[™] as per Certificate of Analysis

Safety information:

EasySeed[™] is not classed as a Dangerous Good or hazardous material. It has been gamma irradiated and the *Cryptospordium* are non viable. Please refer to the Safety Data Sheet (available online www.biopoint.com.au)

References:

- [1] ISO Guide 30 Reference materials Selected terms and definitions
- [2] ISO Guide 31 Reference materials Contents of certificates labels and accompanying documentation
- [3] ISO17034 General requirements for the Competence of Reference material Producers
- [4] ISO Guide 35 Reference materials Guidance for characterisation and assessment of homogeneity and stability
- [5] AS ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories

Approved Quality Signatory:

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Lucy Millican Quality Manager 23 February 2024





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