AccuSpike-IR Product Specification and Analysis Report

TEL/FAX: 504-895-3338 or 866-895-3338

EMAIL: custserv@waterborneinc.com

Product: 2.0 mL, self-standing, polypropylene microtube containing 100 each, counted by flow-cytometry cell sorting, of *Giardia lamblia, H3 isolate, cysts and Cryptosporidium parvum, Iowa isolate, oocysts suspended in* 0.75 mL of a de-ionized water/0.01% Tween 20 solution. AccuSpike-IR is designed for percent recovery determination with matrix (environmental) and reagent water samples by US EPA Methods 1622, 1623, and 1623.1.

Species/genus identification method: Direct immunofluorescence microscopy with genus-specific monoclonal antibodies; also phase microscopy.

Purification method: Cysts and oocysts are purified from feces by sucrose and Percoll density gradient centrifugation.

Quantitation method: Cells enumerated using flow cytometry.

Storage Conditions: 4 C. DO NOT FREEZE.

Inactivation/Sterilization: Gamma irradiation.

Lot# 141

Preparation: 10/11/2023

Expiration: 01/03/2024 for Giardia & Cryptosporidium analysis

Expiration: 01/31/2024 for Cryptosporidium **analysis ONLY**

Calibration Data

Test:	Spike Preparation	Spike Preparation
Organism:	Cryptosporidium	Giardia
Source of Organism:	Experimentally infected mice.	Experimentally infected gerbils.
Organism strain:	CpAZ	H3
Stock suspension lot number:	92623-117	231003
Date cells collected by source:	9/26/23	10/3/23
Date of initial calibration:	10/4/23	10/4/23
Age of cells (in days):	8	1
Storage media:	e-ionized Water/0.01% Tween 2	e-ionized Water/0.01% Tween 20
Storage temperature:	4 C	4 C
Viability (PI) before Irradiation	99.9%	99.5%
Mean of the counts:	99.60	99.80
Standard deviation of the coun	1.30	1.20
Relative standard deviation:	1.30	1.20
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Notes from Sorting Facility:

- (1) Mean, standard deviation and relative standard deviation are calculated from a minimum of 12 calibration verification samples per set of 10 standards.
- (2) Parasites are evaluated for general quality and intactness under DIC microscopy prior to use.