## AccuSpike-IR Product Specification and Analysis Report

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# 139 Preparation: 06/07/2023 Expiration: 08/30/2023 for Giardia & Cryptosporidium analysis Expiration: 09/27/2023 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:	53123-115	230531
Date cells collected by source:	5/31/23	5/31/23
Date of initial calibration:	6/2/23	6/2/23
Age of cells (in days):	2	2
Storage media:	e-ionized Water/0.01% Tween 2	e-ionized Water/0.01% Tween 2
Storage temperature:	4 C	4 C
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Viability (PI) before Irradiation	99.9%	99.2%
Mean of the counts:	99.50	100.00
Standard deviation of the coun	1.30	1.30
Relative standard deviation:	1.30	1.30

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.