AccuSpike-IR Product Specification and Analysis Report

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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# 142

Preparation: 12/07/2023

Expiration: 02/29/2024 for Giardia & Cryptosporidium analysis

Expiration: 03/28/2024 for Cryptosporidium **analysis ONLY**

Calibration Data

Spike Preparation	Spike Preparation
Cryptosporidium	Giardia
Experimentally infected mice.	Experimentally infected gerbils.
CpAZ	H3
120323-118	231204
12/3/23	12/4/23
12/5/23	12/5/23
2	1
e-ionized Water/0.01% Tween 2	e-ionized Water/0.01% Tween 2
4 C	4 C
99.9%	99.5%
99.00	100.30
1.00	1.20
1.00	1.20
	Cryptosporidium Experimentally infected mice. CpAZ 120323-118 12/3/23 12/5/23 2 De-ionized Water/0.01% Tween 2 4 C 99.9% 99.00 1.00

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.