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# 136

Preparation: 12/09/2022

Expiration: 03/03/2023 for Giardia & Cryptosporidium analysis

Expiration: 03/21/2023 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:	112822-112	221130
Date cells collected by source:	11/28/22	11/30/22
Date of initial calibration:	12/1/22	12/1/22
Age of cells (in days):	3	1
Storage media:	e-ionized Water/0.01% Tween 2	e-ionized Water/0.01% Tween 2
Storage temperature:	4 C	4 C
Viability (PI) before Irradiation	99.8%	99.4%
Mean of the counts:	99.90	100.20
Standard deviation of the coun	1.20	1.20
Relative standard deviation:	1.20	1.20

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.