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# 119

Preparation: 01/20/2020

Expiration: 04/13/2020 for Giardia & Cryptosporidium analysis

Expiration: 05/11/2020 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:	10620-96	200109
Date cells collected by source:	1/6/20	1/9/20
Date of initial calibration:	1/14/20	1/14/20
Age of cells (in days):	8	5
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	99.1%	99.4%
Mean of the counts:	99.10	100.30
Standard deviation of the coun	1.10	1.00
Relative standard deviation:	1.10	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.