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# 123

Preparation: 11/06/2020

Expiration: 01/29/2021 for Giardia & Cryptosporidium analysis

Expiration: 02/26/2021 for Cryptosporidium **analysis ONLY**

Calibration Data

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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:	102020-99	201022
Date cells collected by source:	10/20/20	10/22/20
Date of initial calibration:	10/27/20	10/27/20
Age of cells (in days):	7	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	99.2%	99.4%
Mean of the counts:	99.80	99.70
Standard deviation of the cour	1.30	1.20
Relative standard deviation:	1.30	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.