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# 126

Preparation: 04/29/2021

Expiration: 07/22/2021 for Giardia & Cryptosporidium analysis

Expiration: 08/19/2021 for Cryptosporidium analysis ONLY

Calibration Data

Spike Preparation	Spike Preparation
	Giardia
Огургозропашт	Giardia
Experimentally infected mice.	Experimentally infected gerbils.
CpAZ	H3
21413-102	210415
4/13/21	4/15/21
4/20/21	4/20/21
7	5
	•
e-ionized Water/0.01% Tween 2	e-ionized Water/0.01% Tween 2
4 C	4 C
	•
99.7%	99.3%
99.80	100.00
1.30	1.20
1.30	1.20
	CpAZ 21413-102 4/13/21 4/20/21 7 De-ionized Water/0.01% Tween 2 4 C 99.7% 99.80 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.