Waterborne™, Inc.
Environmental and Clinical Parasitology
6045 Hurst St, New Orleans, LA 70118, USA

TEL/FAX: 504-895-3338 or 866-895-3338
EMAIL: custserv@waterborneinc.com

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# 125
Preparation: 3/5/2021
Expiration: 5/28/2021 for *Giardia* & *Cryptosporidium* analysis
Expiration: 6/25/2021 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:	21521-101	210218
Date cells collected by source:	2/15/21	2/18/21
Date of initial calibration:	2/24/21	2/24/21
Age of cells (in days):	9	6
Storage media:	De-ionized Water/0.01% Tween 20	De-ionized Water/0.01% Tween 20
Storage temperature:	4 C	4 C
Viability (PI) before Irradiation	98.1%	99.1%
Mean of the counts:	99.70	99.90
Standard deviation of the counts	1.50	1.20
Relative standard deviation:	1.50	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.