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AccuSpike-IR Product Specification and Analysis Report

Product: 1.5 mL polypropylene vial 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 and 1623.

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# 90
Preparation: 3/25/2015
Expiration: 6/17/2015 for *Giardia* & *Cryptosporidium* analysis
Expiration: 7/15/2015 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:	31915-67	150319
Date cells collected by source:	3/19/15	3/19/15
Date of initial calibration:	3/23/15	3/23/15
Age of cells (in days):	4	4
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	99.9%	99.4%
Mean of the counts:	99.40	100.10
Standard deviation of the counts:	1.60	1.40
Relative standard deviation:	1.70	1.40

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.