

## 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# 21

**Preparation: 07/29/07**

**Expiration: 10/07/07 for *Giardia* & *Cryptosporidium* analysis**

**Expiration: 11/18/07 for *Cryptosporidium* analysis ONLY**

### Calibration Data

Test:	Spike Preparation	Spike Preparation
<b>Organism:</b>	<i>Cryptosporidium</i>	<i>Giardia</i>
Source of Organism:	Experimentally infected calves.	Experimentally infected gerbils.
Organism strain:	Iowa	H3
Stock suspension lot number:	72507-4	070725
Date cells collected by source:	7/25/07	7/25/07
Date of initial calibration:	7/26/07	7/26/07
Age of cells (in days):	1	1
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	99.3%	99.3%
Mean of the counts:	98.83	102.42
Standard deviation of the counts:	1.55	2.26
Relative standard deviation:	1.57	2.21

**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.