

---

---

**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# 36****Preparation: 09/24/08****Expiration: 12/17/08 for *Giardia* & *Cryptosporidium* analysis****Expiration: 01/14/09 for *Cryptosporidium* analysis ONLY**

---

---

---

**Calibration Data**

---

---

Test:	Spike Preparation	Spike Preparation
Organism:	<i>Cryptosporidium</i>	<i>Giardia</i>
Source of Organism:	Experimentally infected mice.	Experimentally infected gerbils.
Organism strain:	CpAZ	H3
Stock suspension lot number:	92208-14	080917
Date cells collected by source:	9/22/08	9/17/08
Date of initial calibration:	9/23/08	9/23/08
Age of cells (in days):	1	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	99.8%	99.1%
Mean of the counts:	99.91	99.45
Standard deviation of the counts:	1.06	1.37
Relative standard deviation:	1.07	1.38

## 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.