

***Giardia lamblia*, Strain Egypt-4**

Catalog No. NR-9231

Product Description: *Giardia lamblia* is a pear-shaped, flagellated protozoan that causes a wide variety of gastrointestinal complaints and is one of the most common causes of parasite infection of humans worldwide.

Lot¹: 57942650

Manufacturing Date: 08NOV2007

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis² Sequencing of cytidine triphosphate synthase gene (~ 1540 bp)	Consistent with <i>Giardia lamblia</i>	Consistent with <i>Giardia lamblia</i>
PCR Assay of Extracted DNA² Cytidine triphosphate synthase gene	1830 bp amplicon	1830 bp amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	8.8 x 10 ⁶ cells/mL
Viability (post-freeze)³	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth No growth

¹NR-9231 was produced by cultivation of the deposited material in ATCC® medium 2695 supplemented with Diamond's Vitamin Solution and 10% heat-inactivated adult bovine serum. The culture was propagated for 7 days at 35°C in an axenic and microaerophilic atmosphere, until peak density was reached.

²Genotypic analyses were completed with pre-freeze cultures

³Incubated under cultivation conditions for approximately 1 week at 35°C

⁴Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 09 JUL 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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