

**Entamoeba histolytica, Strain HM-1:IMSS**

**Catalog No. NR-178**

(Derived from ATCC® 30459™)

**Product Description:**

*Entamoeba histolytica* (*E. histolytica*), strain HM-1:IMSS was isolated by B. Sepulveda and M. Delatorre in 1967 from a sigmoidoscopy of an adult human male with amoebic dysentery in Mexico. NR-178 was produced by cultivation of BEI Resources NRS-178 lot 3779442 in Liver Digest – Yeast Extract – Iron (LYI) *Entamoeba* medium supplemented with 10% heat-inactivated adult bovine serum (HIBS) for 4 days at 37°C in a microaerophilic atmosphere to produce this lot.

**Lot: 70063468**

**Manufacturing Date: 30OCT2023**

TEST	SPECIFICATIONS	RESULTS
<b>Cellular Morphology</b> <sup>1</sup> 3 days at 35°C in a microaerophilic atmosphere in LYI <i>Entamoeba</i> medium supplemented with 10% HIBS	Report results	Polymorphic, adherent, vacuoles visible
<b>Genotypic Analysis</b> <sup>2</sup> Sequencing of 18S ribosomal RNA (rRNA) gene (~ 1600 base pairs)	≥ 99% sequence identity to <i>E. histolytica</i> , strain HM-1:IMSS (GenBank: X65163.1)	99.9% sequence identity to <i>E. histolytica</i> , strain HM-1:IMSS (GenBank: X65163.1) <sup>3</sup>
<b>Viable Cell Count by Hemacytometry</b> <sup>2</sup>	> 10 <sup>6</sup> cells per mL	3.7 × 10 <sup>6</sup> cells per mL
<b>Viability</b> <sup>1</sup> 3 days at 35°C in a microaerophilic atmosphere in LYI <i>Entamoeba</i> medium supplemented with 10% HIBS and Diamond's Vitamin solution	Growth	Growth
<b>Sterility (21-day incubation)</b> <sup>1</sup> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>4</sup> Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	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

<sup>1</sup>Testing completed on vial, post-freeze material

<sup>2</sup>Testing completed on bulk material prior to vialing and freezing

<sup>3</sup>Also consistent with *Entamoeba dispar* and *Entamoeba nuttalli*

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

/Sonia Bjorum Brower/

Sonia Bjorum Brower

24 APR 2024

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

