

**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 35°C in a microaerophilic atmosphere to produce this lot.

**Lot: 70063468**

**Manufacturing Date: 30OCT2023**

TEST	SPECIFICATIONS	RESULTS
<b>Cellular Morphology<sup>1</sup></b> 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<sup>2</sup></b> 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<sup>2</sup></b>	> 10 <sup>6</sup> cells per mL	3.7 × 10 <sup>6</sup> cells per mL
<b>Viability<sup>1</sup></b> 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)<sup>1</sup></b> 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.

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