

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.

Lot¹: 70012624

Manufacturing Date: 13MAR2018

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology²	Report results	Polymorphic and adherent
Genotypic Analysis³ Sequencing of 18S ribosomal RNA (rRNA) gene (~ 1510 base pairs)	≥ 99% sequence identity to <i>E. histolytica</i> , strain HM-1:IMSS (GenBank: X65163.1)	100% sequence identity to <i>E. histolytica</i> , strain HM-1:IMSS (GenBank: X65163.1) ⁴
Functional Activity by PCR Amplification^{3,5} 18S rRNA gene	~ 2100 base pair amplicon	~ 2100 base pair amplicon
Viable Cell Count by Hemocytometry³	> 10 ⁶ cells per mL	5.28 × 10 ⁵ cells per mL
Viability^{2,6}	Growth	Growth
Sterility (21-day incubation)² Harpo's HTYE broth ⁷ , 37°C and 26°C, aerobic Tryptic Soy broth, 37°C and 26°C, aerobic Sabouraud Dextrose broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°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

¹NR-178 was produced by cultivation of BEI Resources NRS-178 lot 3779442 in 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.

²Testing completed on vial, post-freeze material.

³Testing completed on bulk material prior to vialing and freezing.

⁴Also consistent with *Entamoeba dispar* and *Entamoeba nuttalli*

⁵Primer sequences and conditions for PCR are available upon request.

⁶Viable cells were observed after 7 days at 37°C in a microaerophilic atmosphere in LYI *Entamoeba* medium supplemented with 10% HIBS.

⁷Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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