

**Entamoeba histolytica, Strain F-22 (axenic)**

**Catalog No. NR-20086**

**Product Description:**

*Entamoeba histolytica* (*E. histolytica*), strain F-22 was isolated in September 1947 from a human case of amebic brain abscess in India.

**Lot: 61554545<sup>1</sup>**

**Manufacturing Date: 30APR2013**

| TEST  | SPECIFICATIONS  | RESULTS   |
|---|---|---|
| <b>Cellular Morphology<sup>2</sup></b>  | Report results  | Adherent and non-adherent   |
| <b>Genotypic Analysis<sup>3</sup></b><br>Sequencing of 18S ribosomal RNA (rRNA) gene<br>(~ 1770 base pairs)   | Consistent with <i>E. histolytica</i>   | Consistent with <i>E. histolytica</i> <sup>4</sup>                                      |
| <b>Functional Activity by PCR Amplification<sup>3</sup></b><br>18S rRNA gene <sup>5</sup>   | ~ 2100 base pair amplicon   | ~ 2100 base pair amplicon   |
| <b>Viable Cell Count by Hemacytometry<sup>3</sup></b>   | > 10 <sup>6</sup> cells/mL  | 8.2 × 10 <sup>6</sup> cells/mL  |
| <b>Viability (post-freeze)<sup>2,6</sup></b>  | Growth  | Growth  |
| <b>Sterility (21-day incubation)<sup>2</sup></b><br>Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>7</sup><br>Trypticase soy broth, 37°C and 26°C, aerobic<br>Sabouraud broth, 37°C and 26°C, aerobic<br>Brain heart infusion, 37°C and 26°C, aerobic<br>Sheep blood agar, 37°C, aerobic<br>Sheep blood agar, 37°C, anaerobic<br>Thioglycollate broth, 37°C, anaerobic | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth |

<sup>1</sup>NR-20086 was produced by cultivation of the deposited material in LYI *Entamoeba* medium supplemented with 10% heat-inactivated adult bovine serum (HIBS) and Diamond's Vitamin solution for 11 days at 35°C in a microaerophilic atmosphere until peak density was reached.

<sup>2</sup>Testing completed on vial, post-freeze material

<sup>3</sup>Testing completed on bulk material prior to vialing and freezing

<sup>4</sup>Also consistent with other *Entamoeba* species

<sup>5</sup>Primer sequences and conditions for PCR are available upon request.

<sup>6</sup>Viable cells were observed after 7 days at 35°C in a microaerophilic atmosphere in LYI *Entamoeba* medium supplemented with 10% HIBS and Diamond's Vitamin solution.

<sup>7</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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