

Trichomonas vaginalis, Strain NYCB20

Catalog No. NR-58891

Product Description:

Trichomonas vaginalis (*T. vaginalis*) was isolated in 2008 from a human with symptomatic trichomoniasis in Brooklyn, New York, USA. Strain NYCB20 was deposited to BEI Resources as a genotype type 1 strain sensitive to metronidazole and positive for the *T. vaginalis* virus (TVV). NR-58891 was produced by cultivation of the deposited material in modified Trypticase – Yeast – Maltose (TYM) Basal medium supplemented with 10% heat-inactivated horse serum (HIHS) and 0.71% iron solution for 2 days at 35°C in a microaerophilic atmosphere to produce this lot.

Lot: 70064550

Manufacturing Date: 22NOV2023

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Cell Morphology¹ 2 days at 35°C in a microaerophilic atmosphere in modified TYM medium supplemented with 10% HIHS and 0.71% iron | Report results | Ovoid-to-round in clumps, motile and refractive; overall granular appearance (Figure 1) |
| Genotypic Analysis² Sequencing of 18S ribosomal RNA gene (~ 1140 base pairs) | Consistent with <i>T. vaginalis</i> | Consistent with <i>T. vaginalis</i> ³ |
| Viable Cell Count by Hemacytometry¹ | > 10 ⁶ cells/mL | 1.6 × 10 ⁷ cells/mL |
| Viability¹ 2 days at 35°C in a microaerophilic atmosphere in modified TYM medium supplemented with 10% HIHS and 0.71% iron | Growth | Growth |
| Sterility (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ⁴ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud 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 |

¹Testing completed on vial, post-freeze material.

²Testing completed on bulk material prior to vialing and freezing.

³Although the sequence analysis identified the organism as *T. vaginalis*, the results produced a mixed template. This may have resulted from a non-monoclonal isolate (this isolate may consist of more than one genotype of *T. vaginalis*) or the fact that *T. vaginalis* is a haploid organism and regions of heterozygosity in the 18S rRNA gene are expected.

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

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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24 JUL 2024

Technical Manager or designee, ATCC Federal Solutions

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