

***Treponema pallidum* subsp. *pallidum*, Strain Nichols (Houston) (*in vitro*)**

Catalog No. NR-59701

Product Description:

Treponema pallidum (*T. pallidum*) subsp. *pallidum*, strain Nichols (Houston) was deposited to BEI Resources as a clone of strain Nichols, adapted to *in vitro* culture in *Sylvilagus floridanus* (cottontail rabbit) epithelial cells (ATCC® CCL-68™). Strain Nichols (Houston) is a continually propagated laboratory clone of strain Nichols established in 1982. The parental strain Nichols was originally isolated in 1912 from the cerebrospinal fluid of a human subject with recurrent neurosyphilis following treatment with neosalvarsan in Washington, D.C., USA. NR-59701 was produced by inoculation of the testes of a New Zealand white rabbit with a frozen stock from a prior rabbit infection. On day 10 post-infection, the animal was euthanized, and the testes were immediately aseptically removed and minced. NR-59701 was extracted from the minced tissue in *T. pallidum* Cultivation Medium 2 (TpCM-2) with 20% heat-inactivated fetal bovine serum (FBS) under microaerobic conditions (1.5% O₂) for 30 minutes followed by centrifugation twice at 500 × g for 7 minutes to remove tissue debris.

Lot: 70065867

Manufacturing Date: 25APR2024

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis¹ Cellular morphology Motility (wet mount)	Spirochete Motile	Spirochete Motile ²
Concentration¹	Report results	6.9 × 10 ⁷ cells/mL
Amount per vial¹	Report results	8.6 × 10 ⁷ cells in 1.25 mL
Viability (post-freeze)¹	Growth	Growth ³

¹Production and QC testing were performed by the depositor [Steven J. Norris, Ph.D., Professor and Vice Chair for Research, Department of Pathology and Laboratory Medicine, University of Texas Health Science Center at Houston McGovern Medical School, Houston, Texas, USA].

²Motility was confirmed by examination by darkfield microscopy following the procedure described in: Edmondson, D. G. and S. J. Norris. "In Vitro Cultivation of the Syphilis Spirochete *Treponema pallidum*." *Curr. Protoc.* 1 (2021): e44. PubMed: 33599121. Please refer to this reference before starting work with NR-59701.

³Viability was confirmed by propagation in *Sylvilagus floridanus* epithelial cells (Sf1Ep; ATCC® CCL-68™) at 34°C with a microaerophilic atmosphere (1.5% O₂; 5% CO₂; 93.5% N₂).

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24 JUL 2024

Technical Manager or designee, ATCC Federal Solutions

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