Certificate of Analysis for NR-60825

Treponema pallidum subsp. *pallidum*, Strain SS14 *(in vitro)*

Catalog No. NR-60825

Product Description:

Treponema pallidum (T. pallidum) subsp. *pallidum*, strain SS14 was deposited to BEI Resources as a strain adapted to *in vitro* culture in *Sylvilagus floridanus* (cottontail rabbit) epithelial cells (ATCC® CCL-68™). Strain SS14 was originally isolated in 1977 from a skin lesion of a human patient with secondary syphilis following erythromycin treatment failure in Atlanta, Georgia, USA. NR-60825 was produced by inoculation of the testes of a New Zealand white rabbit with a frozen stock from a prior rabbit infection. On day 11 post-infection, the infected rabbit was euthanized, and the testes were immediately aseptically removed and minced. NR-60825 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% O_2) for 30 minutes followed by centrifugation twice at 500 × g for 7 minutes to remove tissue debris.

Lot: 70077293 **Manufacturing Date: 03JUN2025**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis[1] Cellular morphology Motility (wet mount)	 Spirochete Motile	 Spirochete Motile[2]
Concentration[1]	Report results	7.4×10^7 cells/mL
Amount per vial[1]	Report results	9.2×10^7 cells in 1.25 mL
Viability (post-freeze)[1]	Growth	Growth[3]

[1]Production 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].

[2]Motility (> 98%) 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-60825.

[3]Viability was confirmed by propagation in *Sylvilagus floridanus* epithelial cells (Sf1Ep; ATCC® CCL-68™) at 34°C with a microaerophilic atmosphere (1.5% O_2; 5% CO_2; 93.5% N_2).

/Sonia Bjorum Brower/
Sonia Bjorum Brower 06 JAN 2026
Technical Manager or designee, ATCC Federal Solutions

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BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898