b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

# Certificate of Analysis for NR-60824

## *Treponema pallidum* subsp. *endemicum*, Strain Bosnia A *(in vitro)*

## Catalog No. NR-60824

## Product Description:

*Treponema pallidum (T. pallidum)* subsp. *endemicum*, strain Bosnia A was deposited to BEI Resources as a strain adapted to *in vitro* culture in *Sylvilagus floridanus* (cottontail rabbit) epithelial cells (ATCC® CCL-68™). Strain Bosnia A was originally isolated in 1950 from the penile lesion exudate of a human male patient with endemic syphilis presenting with mucous patches in the oral cavity and papular lesions on the face, trunk and extremities in Bosnia. NR-60824 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 infected rabbit was euthanized, and the testes were immediately aseptically removed and minced. NR-60824 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: 70077292** **Manufacturing Date: 25APR2024**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Phenotypic Analysis**[1]<br>Cellular morphology<br>Motility (wet mount) | <br>Spirochete<br>Motile | <br>Spirochete<br>Motile[2] |
| **Concentration**[1] | Report results | 12.8 × $10^7$ cells/mL |
| **Amount per vial**[1] | Report results | 1.6 × $10^8$ 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 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-60824.

[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

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contributor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

Support Provided by NIAID

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