

Treponema pallidum subsp. pertenue, Strain Gauthier

Catalog No. NR-60826

Product Description:

Treponema pallidum (*T. pallidum*) subsp. *endemicum*, strain Gauthier was isolated in 1963 from the skin lesions of a human male patient with yaws in the Congo, Africa.

Note: Attempts to culture *T. pallidum* subsp. *pertenue* *in vitro* have not been successful. NR-60826 will survive for 7 days but will not propagate under these conditions. Propagation is recommended through *in vivo* inoculation in rabbits with collection approximately 21 days post-inoculation following procedures in: Lukehart, S. A. and C. M. Marra. "Isolation and Laboratory Maintenance of *Treponema pallidum*." *Curr. Protoc. Microbiol.* 12 (2007): 12A.1. PubMed: 18770607.

NR-60826 was produced by inoculation of the testes of a New Zealand white rabbit with a frozen stock from a prior rabbit infection. On day 21 post-infection, the infected rabbit was euthanized, and the testes were immediately aseptically removed and minced. NR-60826 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: 70077294

Manufacturing Date: 27MAY2025

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis¹ Cellular morphology Motility (wet mount)	Spirochete Motile	Spirochete Motile ²
Concentration¹	Report results	8 × 10 ⁶ cells/mL
Amount per vial¹	Report results	1 × 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 (> 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-60826.

³Viability was confirmed by propagation in *Syvilagus 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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