

Treponema denticola, Strain OTK

Catalog No. HM-568

Product Description:

Treponema denticola (*T. denticola*), strain OTK was isolated from a deep periodontal pocket in an adult human mouth in the United States. HM-568 was produced by the inoculation of BEI Resources seed lot 62782819 into tryptone-yeast extract-gelatin-volatile fatty acids-serum (TYGVS) broth and incubated for 8 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in TYGVS broth for 7 days at 37°C in an anaerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70060186

Manufacturing Date: 23MAY2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 7 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount)	Spirochetes Report results Report results	Spirochetes No growth on agar ¹ Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>T. denticola</i> , strain OTK (GenBank: AGDY01000009)	99.9% sequence identity to <i>T. denticola</i> , strain OTK (GenBank: AGDY01000009)
Purity (post-freeze) Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood Aerobic with 5% CO ₂ 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Report results No growth	No growth ² No growth ²
Viability (post-freeze)	Growth	Growth

¹Growth on agar is not recommended for *T. denticola*, strain OTK and may not be reproducible.

²No growth was observed after an extended incubation period.

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

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