Certificate of Analysis for HM-569

Treponema denticola, Strain SP37

Catalog No. HM-569

Product Description:

Treponema denticola (*T. denticola*), strain SP37 was isolated from a deep periodontal pocket in an adult human mouth in the United States. HM-569 was produced by inoculation of BEI Resources seed lot 62782820 into tryptone-yeast extract-gelatin-volatile fatty acids-serum (TYGVS) broth and grown for 6 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in TYGVS broth and grown for 6 days at 37°C in an anaerobic atmosphere to produce this lot.

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: 70072341 **Manufacturing Date: 03DEC2024**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology 4 days at 37°C in an anaerobic atmosphere in TYGVS broth	Spirochetes	Spirochetes
Colony morphology 4 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Report results	No growth on agar[1]
Motility (wet mount)	Report results	Motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to *T. denticola,* strain SP37 (GenBank: AGEA01000013.1)	100% sequence identity to *T. denticola,* strain SP37 (GenBank: AGEA01000013.1)
Purity (post-freeze)		
Anaerobic 14 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology or no growth	No growth
Aerobic with 5% CO_2 14 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	No growth	No growth
Viability (post-freeze)		
Visual observation 4 days at 37°C in an anaerobic atmosphere in TYGVS broth	Growth	Growth
LIVE/DEAD® *Bac*Light™ Bacterial Viability	Green fluorescence visible	Green fluorescence visible[2] (Figure 1)

[1]Growth on agar is not recommended for *T. denticola*, strain SP37.
[2]Determined after 4 days incubation under cultivation conditions with LIVE/DEAD® *Bac*Light™ Bacterial Viability Kit, 100x magnification (Invitrogen™ L7007). Cells with a compromised membrane that are dead or dying will stain red, while cells with an intact membrane will stain green

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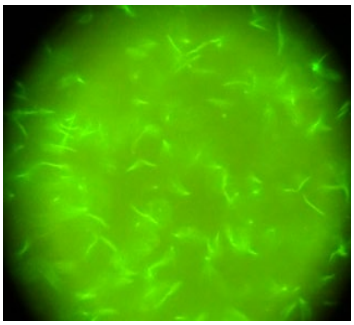
Figure 1: LIVE/DEAD® *Bac*Light™ Bacterial Viability



/Sonia Bjorum Brower/
Sonia Bjorum Brower 10 APR 2025
Technical Manager or designee, ATCC Federal Solutions

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