b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

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.

Lot[1-3]: 62782833 **Manufacturing Date: 13AUG2014**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Spirochetes	Spirochetes
Colony morphology[3,4]	Report results	Irregular, low convex, undulate, translucent and smooth (Figure 1)
Motility (wet mount)	Report results	Motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 870 base pairs)	≥ 99% identical to GenBank: AGEA01000013 (*T. denticola*, strain SP37)	≥ 99% identical to GenBank: AGEA01000013 (*T. denticola*, strain SP37)
Purity (post-freeze)		
Anaerobic growth[5]	Growth consistent with *T. denticola*	Growth consistent with *T. denticola*
Aerobic growth[6]	No growth	No growth
Viability (post-freeze)		
Visual observation[3,4]	Growth	Growth
LIVE/DEAD® *Bac*Light™ Bacterial Viability[7]	Green fluorescence visible	Green fluorescence visible (Figure 2)

[1]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.
[2]*T. denticola*, strain SP37 (also referred to as F0455) was deposited by Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts, USA. The deposited material was inoculated into Peptone-Yeast medium with rabbit serum and cocarboxylase and an aliquot was inoculated into tryptone-yeast extract-gelatin-volatile fatty acids-serum (TYGVS) medium and incubated for 7 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™ R681001). The material from the initial growth was passaged once in TYGVS medium for 50 hours at 37°C in an anaerobic atmosphere to produce this lot.
[3]Growth on agar is not recommended for *T. denticola*, strain SP37 and may not be reproducible.
[4]7 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
[5]Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an anaerobic atmosphere.
[6]Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO_2.
[7]Determined after 7 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.

Figure 1

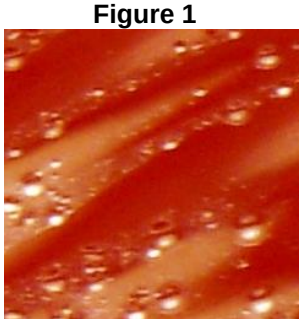
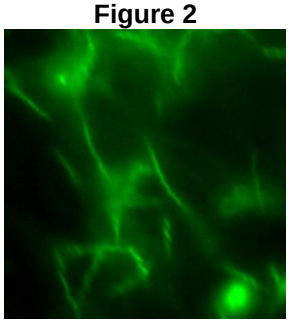


Figure 2



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Date: 19 FEB 2015 **Signature:** 

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