

***Treponema denticola*, Strain SP37**

Catalog No. HM-569

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Spirochaetaceae*, *Treponema*

Species: *Treponema denticola*

Strain: SP37 (also referred to as F0455)

Original Source: *Treponema denticola* (*T. denticola*), strain SP37 was isolated from a deep periodontal pocket in an adult human mouth in the United States.¹

Comments: *T. denticola*, strain SP37 ([HMP ID 9724](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *T. denticola*, strain SP37 was sequenced at the [Broad Institute](#) (GenBank: [AGEA00000000](#)).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

T. denticola is a Gram-negative, obligately anaerobic, non-sporulating, motile spirochete usually found in the microflora of a human mouth, predominately in the subgingival plaque of patients with periodontitis.² This invasive bacterium has been identified as an important cause of periodontal disease and suspected to be involved in extra-oral infections.³⁻⁸

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in tryptone-yeast extract-gelatin-volatile fatty acids-serum (TYGVS) medium supplemented with 80% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

HM-569 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

TYGVS medium or Modified New Oral Spirochete broth^{1,2} or equivalent

Note: Growth on agar is not recommended.

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

Propagation:

1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate additional broth tubes.
4. Incubate tubes at 37°C for 3 to 7 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Treponema denticola*, Strain SP37, HM-569."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

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