**Treponema denticola**, Strain OTK

**Catalog No. HM-568**

For research use only. Not for use in humans.

**Contributor:**
Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts, USA

**Manufacturer:**
BEI Resources

**Product Description:**

**Bacteria Classification:** Spirochaetaceae, Treponema  
**Species:** Treponema denticola  
**Strain:** OTK (also referred to as F0454)  
**Original Source:** Treponema denticola (T. denticola), strain OTK was isolated from a deep periodontal pocket in an adult human mouth in the United States.¹ ²  
**Comments:** T. denticola, strain OTK (HMP ID 9723) 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 OTK was sequenced at the Broad Institute (GenBank: AGDY00000000).  
**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.

**Biosafety Level:** 1  

**Use Restrictions:**  
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**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-568 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. Freezer-thaw cycles should be avoided.

**Growth Conditions:**  
TYGVS medium or Modified New Oral Spirochete broth or equivalent¹ ³  
**Note:** Growth on agar is not recommended.  
**Incubation:**  
**Temperature:** 37°C

**Atmosphere:** Anaerobic  
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 OTK, HM-568.”

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References:
1. Izard, J., Personal Communication.

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