

Clostridiales bacterium, Strain S5-A14a

Catalog No. HM-1098

Product Description: Clostridiales bacterium, strain S5-A14a was isolated in 2012 from the vagina of a woman with bacterial vaginosis in Seattle, Washington, USA. **Note:** The label on the vial is incorrect; the correct nomenclature is Family XIII *Incertae Sedis*

Lot^{1,2}: 70012281

Manufacturing Date: 27FEB2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ⁴ Motility (wet mount)	Gram-positive rods Report results Report results	Inconclusive³ Punctiform and gray (Figure 1) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1370 base pairs)	≥ 99% sequence identity to Clostridiales bacterium, strain S5-A14a (GenBank: JRNA01000017.1)	99.9% sequence identity to Clostridiales bacterium, strain S5-A14a (GenBank: JRNA01000017.1)
Purity (post-freeze) Anaerobic growth ⁵ Aerobic growth ⁶	Consistent with expected colony morphology No growth	Consistent with expected colony morphology No growth
Viability (post-freeze)⁴	Growth	Growth

¹Quality 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.

²Clostridiales bacterium, strain S5-A14a was deposited by Maria V. Sizova, Department of Biology, Northeastern University, Boston, Massachusetts, USA. HM-1098 was produced by inoculation of the deposited material into Tryptic Soy Yeast Extract broth which was cultivated on Tryptic Soy agar with 5% defibrinated sheep blood for 9 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). Colonies were then suspended in Tryptic Soy Yeast Extract broth and used to inoculate Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown 6 days at 37°C in an anaerobic atmosphere to produce this lot.

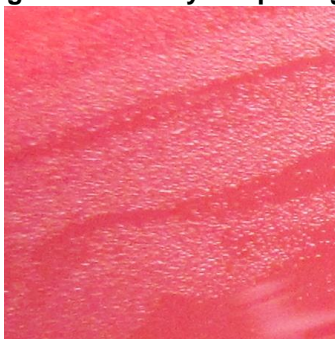
³Bacteria of the order Clostridiales have a Gram-positive cell wall but may stain Gram-variable or Gram-negative. For more information, please refer to Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." *Anaerobe* 17 (2011): 206-210. PubMed: 21699990.

⁴4 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁵Purity of this lot was assessed for 7 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

⁶Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

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