

Granulicatella adiacens, Strain CC94D

Catalog No. HM-1047

Product Description:

Granulicatella adiacens (*G. adiacens*), strain CC94D was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada. HM-1047 was produced by the inoculation of BEI Resources seed lot 62072052 into Todd-Hewitt broth supplemented with 100 mg/L L-cysteine and grown for 3 days at 37°C in an aerobic atmosphere with 5% CO₂. The material from the initial growth was passaged once in Todd-Hewitt broth supplemented with 100 mg/L L-cysteine for 2 days at 37°C in an aerobic atmosphere with 5% CO₂ 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: 70055114

Manufacturing Date: 21SEP2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ¹ 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ in Todd-Hewitt broth supplemented with 100 mg/L cysteine Colony morphology ³ 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood Colony morphology ³ 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood supplemented with 10 mg/L pyridoxal HCl Motility (wet mount)	Gram-variable, pleomorphic cocci Report results Report results Report results	Gram-negative, pleomorphic cocci ² Punctiform Circular, low convex, entire, smooth and white (Figure 1) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to <i>G. adiacens</i> type strain (GenBank: CP102283.1)	99.9% sequence identity to <i>G. adiacens</i> type strain (GenBank: CP102283.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood supplemented with 10 mg/L pyridoxal HCl	Growth	Growth

¹Variability in cellular morphology is dependent on growth conditions: *G. adiacens* exhibits pleomorphic morphology with chains including cocci, coccobacilli and globular and rod-shaped cells when grown in the presence of cysteine- or pyridoxal-supplemented broth. (Collins, M. D. and P. A. Lawson. "The Genus *Abiotrophia* (Kawamura et al.) Is Not Monophyletic: Proposal of *Granulicatella* gen. nov., *Granulicatella adiacens* comb. nov., *Granulicatella elegans* comb. nov. and *Granulicatella balaenopterae* comb. nov." *Int. J. Syst. Evol. Microbiol.* 50 (2000): 365-369. PubMed: 10826824.)

²Gram-stain variability in *G. adiacens* isolates has been described. (Christensen, J. J. and R. R. Facklam. "Granulicatella and Abiotrophia Species from Human Clinical Specimens." *J. Clin. Microbiol.* 39 (2001): 3520-3523. PubMed: 11574566.)

³Variability in agar growth is dependent on growth conditions and may not be reproducible without the addition of pyridoxal HCl. Information on additional growth conditions can be found in Christensen, J. J. and R. R. Facklam. "Granulicatella and Abiotrophia Species from Human Clinical Specimens." *J. Clin. Microbiol.* 39 (2001): 3520-3523. PubMed: 11574566.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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