

***Clostridium aldenense*, Strain WAL-18727**

**Catalog No. HM-307**

**Product Description:**

*Clostridium aldenense* (*C. aldenense*), strain WAL-18727 was isolated from the stool of a sister of an autistic child. HM-307 was produced by inoculation of BEI Resources seed lot 60574086 into Modified Reinforced Clostridial broth and incubated for 6 days at 37°C in an anaerobic atmosphere (< 5% O<sub>2</sub>; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth for 3 days at 37°C and anaerobic atmosphere 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: 70046283**

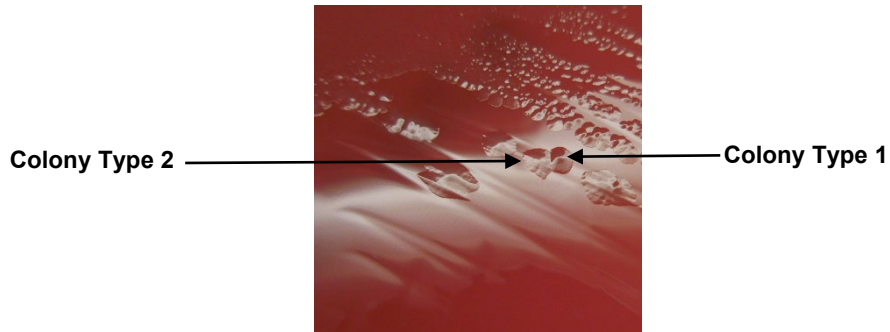
**Manufacturing Date: 19AUG2021**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>1</sup> 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood  Colony morphology <sup>2</sup> 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood  Motility (wet mount)	Report results  Report results  Report results	Gram-negative rod  Colony type 1: Circular, convex, entire, smooth and gray Colony type 2: Irregular, flat, undulate, smooth and gray (Figure 1)  Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs)	≥ 99% sequence identity to <i>C. aldenense</i> type strain (GenBank: DQ279736.1)	99.4% sequence identity to <i>C. aldenense</i> type strain (GenBank: DQ279736.1)
<b>Purity (post-freeze)</b> Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood  Aerobic with 5% CO <sub>2</sub> 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology  No growth	Growth consistent with expected colony morphology  No growth
<b>Viability (post-freeze)</b> 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy aAgar with 5% defibrinated sheep blood	Growth	Growth

<sup>1</sup>*C. aldenense* is characterized as Gram-positive, but the published literature for this species shows that it often displays a Gram-negative phenotype [Warren, Y. A., et al. "*Clostridium aldenense* sp. nov. and *Clostridium citroniae* sp. nov. Isolated from Human Clinical Infections." *J. Clin. Microbiol.* 44 (2006): 2416-2422. PubMed: 16825358.].

<sup>2</sup>Two colony types were observed. Plating of the individual colony types showed that they did not revert to the mixed colony type. The 16S ribosomal RNA gene of each colony type was sequenced and found to be consistent with the other colony type.

Figure 1: Colony Morphology



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