

Certificate of Analysis for HM-310

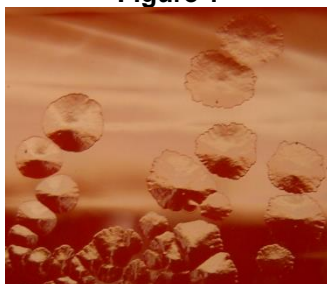
Clostridium perfringens*, Strain WAL-14572*Catalog No. HM-310****Product Description:** *Clostridium perfringens* (*C. perfringens*), strain WAL-14572 was isolated from human feces.**Lot^{1,2}: 59769196****Manufacturing Date: 07MAR2011**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ³	Gram-positive rod Report results	Gram-positive rod Irregular, flat, entire to undulate, and translucent (Figure 1)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% identical to depositor's sequence Consistent with <i>C. perfringens</i>	Pending Consistent with <i>C. perfringens</i>
Viability (post-freeze)³	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.

²*C. perfringens*, strain WAL-14572 was deposited by Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. The deposited material was inoculated into Modified Reinforced Clostridial Broth (ATCC medium 2107) and incubated for 48 hours at 37°C and anaerobic atmosphere (80% N₂:10% CO₂:10% H₂). The material from the initial growth was passaged once in Modified Reinforced Clostridial Broth for 72 hours at 37°C and anaerobic atmosphere to produce this lot.

³72 hours at 37°C and anaerobic atmosphere on Tryptic Soy Agar with 5% defibrinated sheep blood

Figure 1**Date:** 06 JUN 2011**Signature:** **Title:** Technical Manager, BEI Authentication or designee

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