b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-297

Campylobacter upsaliensis, Strain JV21

Catalog No. HM-297

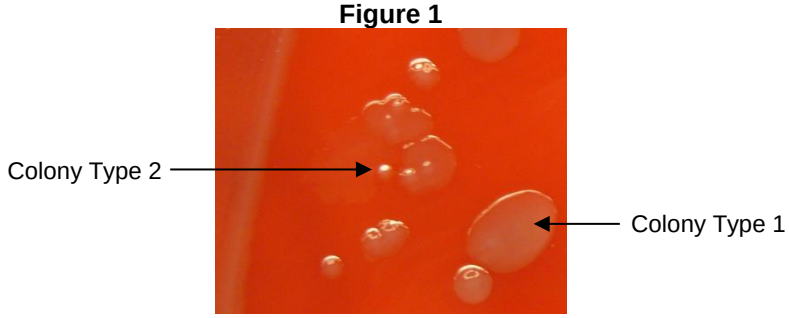
Product Description: *Campylobacter upsaliensis* (*C. upsaliensis*), strain JV21 was isolated from a human gastrointestinal tract.

Lot[1,2]: 60609336 **Manufacturing Date: 23JAN2012**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphologies[3,4]	 Report results Report results	 Gram-negative rod Colony type 1: Irregular, flat and gray (Figure 1) Colony type 2: Circular, low convex and gray (Figure 1)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1390 base pairs)	≥ 99% identical to GenBank: AEPU01000040 (*C. upsaliensis*, strain JV21)	≥ 99% identical to GenBank: AEPU01000040 (*C. upsaliensis*, strain JV21)
Viability (post-freeze)[3]	Growth	Growth

[1]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.
[2]*C. upsaliensis*, strain JV21 was deposited by Professor James Versalovic, M.D., Ph.D., Department of Pathology, Baylor College of Medicine, Houston, Texas. The deposited material was inoculated into Brucella Broth (ATCC medium 1115) and incubated for 48 hours at 37°C in a microaerophilic atmosphere (~ 80% N_2, 7.5% H_2, 7.5% CO_2 and 5% O_2). Broth was then added to Kolles and incubated for 72 hours at 37°C in a microaerophilic atmosphere to produce this lot.
[3]72 hours at 37°C in a microaerophilic atmosphere on Tryptic Soy Agar with 5% defibrinated sheep blood
[4]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 and *C. upsaliensis*.

Figure 1



Date: 22 MAY 2012 **Signature:**

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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