b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-75

Fusobacterium nucleatum subsp. *animalis*, Strain D11

Catalog No. HM-75

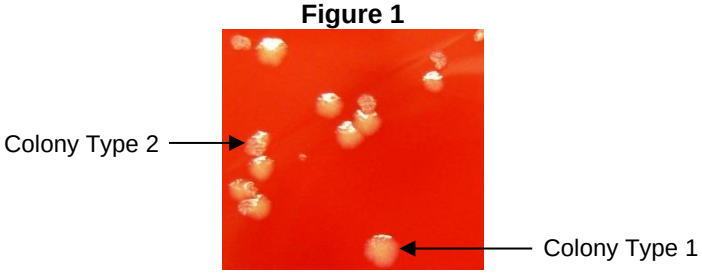
Product Description: *Fusobacterium nucleatum* (*F. nucleatum*) subsp. *animalis*, strain D11 was isolated in 2007 from normal biopsy tissue taken from the decending colon of a 19-year-old woman with inactive Crohn's disease in Calgary, Alberta, Canada.

Lot[1,2]: 62202652 **Manufacturing Date: 06DEC2013**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphologies[3,4]	Report results	Colony type 1: Circular, convex, entire, smooth and cream (Figure 1) Colony type 2: Irregular, flat, undulate, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 890 base pairs)	≥ 99% identical to GenBank: ACDS01000304 (*F. nucleatum* subsp. *animalis*, strain D11)	≥ 99% identical to GenBank: ACDS01000304 (*F. nucleatum* subsp. *animalis*, strain D11)
Viability (post-freeze)[4]	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]*F. nucleatum* subsp. *animalis*, strain D11 (also referred to as strain 2_1_50B) was deposited by Emma Allen-Vercoe, Assistant Professor, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. HM-75 was produced by inoculation of the deposited material into Modified Chopped Meat medium and incubated for 44 hours at 37°C and anaerobic atmosphere (80% N_2:20% CO_2). The material from the initial growth was passaged once in Modified Chopped Meat medium for 48 hours at 37°C in an anaerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.
[3]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 *F. nucleatum* subsp. *animalis*.
[4]52 hours at 37°C and anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

Figure 1



Date: 25 MAR 2014 **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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