

***Campylobacter jejuni* subsp. *jejuni*, Strain TGH 9011**

Catalog No. NR-4082

(Derived from ATCC® 43431™)

Product Description: *Campylobacter jejuni* (*C. jejuni*) subsp. *jejuni*, strain TGH 9011 was isolated by Dr. L. Spence from human feces at Toronto General Hospital in Toronto, Ontario, Canada.

Lot¹: 57604849

Manufacturing Date: JAN2007

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Growth at 25°C ³ Growth at 42°C ³ Biochemical tests: Oxidase Catalase Urease Nitrate reduction TSI (H ₂ S production) Hippurate hydrolysis VITEK® MS (MALDI-TOF)	Gram-negative rod Report results No growth Growth Positive Positive Negative Positive Negative Positive Consistent with <i>C. jejuni</i>	Gram-negative rod Circular, low convex and smooth No growth Growth Positive Positive Negative Positive Negative Positive Consistent with <i>C. jejuni</i>
Antibiotic Susceptibility Nalidixic acid Cephalothin	Sensitive ⁴ Resistant	Sensitive (30 mm zone) Resistant (< 6 mm zone)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 570 base pairs)	Consistent with <i>C. jejuni</i>	Consistent with <i>C. jejuni</i> ^{5,6}
Functional Activity by PCR Amplification Presence of cytolethal distending factor toxin: <i>cdtA</i> <i>cdtB</i> <i>cdtC</i> Presence of: Hippurate hydrolysis gene (<i>HipO</i>) Tetracycline resistance protein gene (<i>TetO</i>)	Report results Report results Report results ~ 1180 base pair amplicon Report results	~ 165 base pair amplicon No amplicon ~ 555 base pair amplicon ~ 1180 base pair amplicon No amplicon
Viability (post-freeze)²	Growth	Growth

¹NR-4082 was produced by resuspension of a freeze dried vial of ATCC® 43431™ (lot 4738669) in Brucella broth. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles and incubated at 37°C in a microaerophilic (3–5% O₂ and 5% CO₂) atmosphere for 48 hours. Growth was harvested from the kolles and used to inoculate a second passage on Tryptic Soy agar with 5% defibrinated sheep blood kolles under the same propagation conditions to produce this lot.

²48 hours at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood in a microaerophilic atmosphere

³48 hours on Tryptic Soy agar with 5% defibrinated sheep blood in a microaerophilic atmosphere

⁴Nalidixic acid-resistant *C. jejuni* have been reported

⁵Also consistent with *C. coli*

⁶Identical to 16S ribosomal RNA gene sequence GenBank: z29326.1 (*C. jejuni* subsp. *jejuni*, strain TGH 9011)

Certificate of Analysis for NR-4082

Date: 17 NOV 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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