

***Campylobacter jejuni* subsp. *jejuni*, Strain MK 104**

Catalog No. NR-4084

(Derived from ATCC® 43446™)

Product Description: *Campylobacter jejuni* (*C. jejuni*) subsp. *jejuni*, strain MK 104 was isolated by Dr. M. Karmali from human feces at The Hospital for Sick Children in Toronto, Ontario, Canada.

Lot¹: 57617842

Manufacturing Date: 05FEB2007

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ^{2,3} Growth at 25°C ⁴ Growth at 42°C ⁴ 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, entire and smooth No growth Growth Positive Positive Negative Positive Negative Positive Consistent with <i>C. jejuni</i>
Antibiotic Susceptibility Nalidixic acid Cephalothin	Sensitive ⁵ Resistant	Sensitive (30 mm zone) Resistant (< 6 mm zone)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 630 base pairs)	Consistent with <i>C. jejuni</i>	Consistent with <i>C. jejuni</i> 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 ~ 495 base pair amplicon ~ 555 base pair amplicon ~ 1180 base pair amplicon No amplicon
Viability (post-freeze)²	Growth	Growth

¹NR-4084 was produced by resuspension of a freeze dried vial of ATCC® 43446™ 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

³Some lots of ATCC® 43446™ have presented two colony types: 1) convex and entire; 2) Irregular and flat.

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

⁵Nalidixic acid-resistant *C. jejuni* have been reported

⁶Also consistent with *C. coli*

Certificate of Analysis for NR-4084

Date: 17 NOV 2014

Signature:



Title: Technical Manager, BEI Authentication or designee

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