

**Geobacillus stearothermophilus, Strain NCA 1518**

**Catalog No. NR-2497**

(Derived from ATCC® 7953™)

**Product Description:** *Geobacillus stearothermophilus* (*G. stearothermophilus*) was isolated from under-processed canned food at the National Cannery Association, Washington, D.C.

**Lot<sup>1</sup>: 4874333**

**Manufacturing Date: 11NOV2005**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup> Sporulation Anaerobic growth Motility β-hemolysis Capsule (India ink staining) Tenacious Analytical profile index (API® 50 CHB)  Biochemical tests Nitrate Arginine dihydrolase Glycerol Salicin Glycogen Trehalose Nutrient agar with 0.7% sodium bicarbonate FAME analysis	Consistent with ATCC® 7953™ Report results Report results Positive Negative Motile Hemolytic Negative Negative Consistent with <i>G. stearothermophilus</i>  Report results Negative Negative Report results Report results Report results No growth Consistent with <i>G. stearothermophilus</i>	Consistent with ATCC® 7953™ Gram-positive rod Round, granular Positive Negative Motile Hemolytic Negative Negative Consistent with <i>G. stearothermophilus</i>  Positive Negative Negative Negative Negative Negative No growth Consistent with <i>G. stearothermophilus</i>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 740 base pairs)	Consistent with <i>G. stearothermophilus</i>	Consistent with <i>G. stearothermophilus</i> <sup>3</sup>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-2497 was produced by inoculation of ATCC® 7953™ (Lot 4363983) in Nutrient broth for 24 hours at 55°C and aerobic atmosphere. <sup>2</sup>24 hours at 55°C and aerobic atmosphere on Nutrient agar.

<sup>3</sup>Also consistent with other *Geobacillus* species

**Date:** 08 DEC 2014

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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