

***Clostridium botulinum*, Strain 1347 (Type B, Proteolytic)**

Catalog No. NR-238

(Derived from ATCC® 17841™)

Product Description: *Clostridium botulinum* (*C. botulinum*), strain 1347 [neurotoxin type B (proteolytic)] was deposited to the ATCC® by Leland S. McClung.

Lot¹: 58261649

Manufacturing Date: 04OCT2008

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Biochemical tests RapID™ ANA II	Gram-positive rod Report results <i>C. botulinum</i> (>95%)	Gram-positive rod Irregular, flat, entire, opaque and gray <i>C. botulinum</i> , Group I (99.4%) ³
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1350 base pairs)	>99% identical to <i>C. botulinum</i> , type B (GenBank: AP014696.1)	100% identical to <i>C. botulinum</i> , type B (GenBank: AP014696.1)
Confirmation of Neurotoxin Type by PCR Amplification of Extracted DNA Positive control (16S ribosomal RNA gene) Negative control (<i>Clostridium difficile</i>) NR-238 (neurotoxin type B) Neurotoxin types A, C, D, E, F, G	Amplicon present No amplicon present Amplicon present No amplicons present	Amplicon present No amplicon present Amplicon present No amplicons present
Purity (post-freeze)⁴ Anaerobic atmosphere (90% N ₂ :5% CO ₂ :5% H ₂) Aerobic atmosphere	Growth consistent with expected colony morphology No growth	Growth consistent with expected colony morphology No growth
Viability (post-freeze)²	Growth	Growth

¹NR-238 was produced by inoculation of ATCC® 17841™ (Lot 27624) into Reinforced Clostridial broth and grown 3 days at 37°C in an anaerobic atmosphere (80% N₂:10% CO₂:10% H₂). Inoculum from this growth was added to Reinforced Clostridial broth and grown 1 day at 37°C in an anaerobic atmosphere (80% N₂:10% CO₂:10% H₂) to produce this lot.

²2 days at 37°C in an anaerobic atmosphere (90% N₂:5% CO₂:5% H₂) on Tryptic Soy agar with 5% defibrinated sheep blood.

³*C. botulinum* Group I consists of toxin type A and proteolytic strains of toxin type B and F. *C. botulinum* Group I is phenotypically similar to *C. sporogenes*. Toxin neutralization testing is recommended for confirmation of *C. botulinum* Group I.

⁴Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C.

Date: 16 JUN 2016

Signature:



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