

Borrelia hispanica

Catalog No. NR-51677

Product Description:

Borrelia hispanica (*B. hispanica*) was isolated in Spain in 2017 from the blood of a cat with relapsing fever. NR-51677 lot 70027345 was produced by inoculation of the deposited material into Revised Barbour-Stoenner-Kelly broth and grown for 6 days at 33°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Revised Barbour-Stoenner-Kelly broth and grown for 6 days at 33°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Lot: 70027345

Manufacturing Date: 21OCT2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology 6 days at 33°C in an aerobic atmosphere with 5% CO ₂ in Revised Barbour-Stoenner-Kelly broth Motility (wet mount)	Spirochete Report results	Spirochete Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA (rRNA) gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>B. hispanica</i> , strain CRI (GenBank: AY001000163.1)	99.9% sequence identity to <i>B. hispanica</i> , strain CRI (GenBank: AY001000163.1) ¹
Purity 14 days at 37°C in an aerobic atmosphere with 5% CO ₂ in Tryptic Soy agar with 5% defibrinated sheep blood	No growth	No growth
Viability (post-freeze) Visual observation 6 days at 33°C in an aerobic atmosphere with 5% CO ₂ in Revised Barbour-Stoenner-Kelly broth LIVE/DEAD [®] BacLight™ Bacterial Viability	Growth Green fluorescence visible	Growth Green fluorescence visible ²

¹Also consistent with other *Borrelia* species

²Determined after 6 days at 33°C in an aerobic atmosphere with 5% CO₂ in Revised Barbour-Stoenner-Kelly broth with LIVE/DEAD[®] BacLight™ Bacterial Viability Kit, 1000× magnification (Invitrogen™ L34856). Cells with a compromised membrane that are dead or dying will stain red, while cells with an intact membrane will stain green.

/Heather Couch/

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