

Borrelia recurrentis*, Strain PAbn*Catalog No. NR-51673****Product Description:**

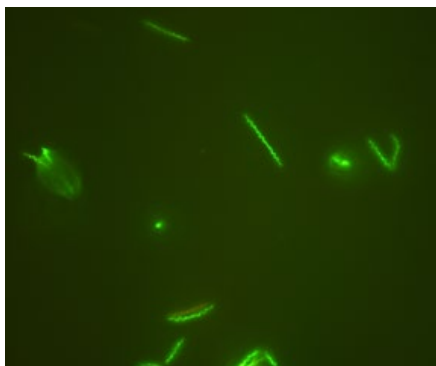
Borrelia recurrentis (*B. recurrentis*), strain PAbn was isolated in 2015 from the blood of a human with louse-borne relapsing fever who originated in Ethiopia and migrated to Germany. NR-51673 was produced by inoculation of BEI Resources seed lot 70027338 into Revised Barbour-Stoenner-Kelly broth and grown for 11 days at 33°C in a microaerophilic atmosphere (6% to 16% O₂ and 2% to 10% CO₂; BD GasPak™ EZ Campy). Broth inoculum was added to Revised Barbour-Stoenner-Kelly broth and grown for 7 days at 33°C in microaerophilic atmosphere with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70070226**Manufacturing Date: 14OCT2024**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology 7 days at 33°C in a microaerophilic atmosphere 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. recurrentis</i> , strain PAbn (GenBank: CP169952.1)	99.9% sequence identity to <i>B. recurrentis</i> , strain PAbn (GenBank: CP169952.1)
Purity 11 days at 33°C in a microaerophilic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood 11 days at 37°C in an aerobic atmosphere with 5% CO ₂ in Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with colony morphology or no growth No growth	No growth No growth
Viability (post-freeze) Visual observation 7 days at 33°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth LIVE/DEAD® BacLight™ Bacterial Viability	Growth Green fluorescence visible	Growth Green fluorescence visible (Figure 1) ¹

¹Determined after 7 days at 33°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth with LIVE/DEAD® BacLight™ Bacterial Viability Kit, 1000× magnification (Invitrogen™ L7007). Cells with a compromised membrane that are dead or dying will stain red, while cells with an intact membrane will stain green.

Figure 1: LIVE/DEAD® *BacLight*™ Bacterial Viability

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