

## *Brucella abortus*, Strain RB51

### Catalog No. NR-2552

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**Product Description:** *Brucella abortus* (*B. abortus*) is a non-motile, aerobic, gram-negative coccobacillus which displays a moderate degree of human virulence. *B. abortus*, strain RB51 is an attenuated, stable rough mutant derived from the virulent strain 2308. *B. abortus*, strain RB51 is the official vaccine for the U.S. bovine eradication program, and is also being used in several other countries to prevent and control animal brucellosis.

**Lot<sup>1</sup>: 5351490**

**Manufacturing Date: 07MAR2006**

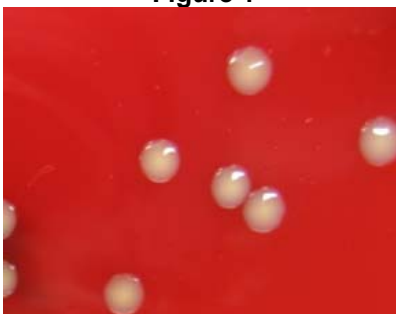
TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony color and morphology <sup>2</sup> Hemolysis Motility Biochemical tests Catalase Oxidase Urease Indole Hydrogen sulfide production Nitrate Arginine dihydrolase Arabinose Glucose Xylose Biolog™ (GN2 Microplate™)	Gram-negative coccobacillus Report results Non-hemolytic Non-motile Identical to deposited culture Positive Positive Positive (> 5 minutes) Report results Report results Report results Report results Report results Report results Report results Consistent with <i>B. abortus</i>	Gram-negative coccobacillus See Figure 1 Non-hemolytic Non-motile Identical to deposited culture Positive Positive Positive (> 5 minutes) Negative Negative Positive Negative Positive Negative Positive Consistent with <i>B. abortus</i> (95% probability, 0.53 similarity index)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1430 bp)	Consistent with <i>B. abortus</i>	Consistent with <i>B. abortus</i> <sup>3</sup>
<b>Concentration of Viable Organisms (post-freeze)<sup>2</sup></b>	Report results	1.6 X 10 <sup>10</sup> CFU/mL

<sup>1</sup>NR-2552 was produced by inoculation deposited culture into Tryptic Soy Broth (VWR 90000-378).

<sup>2</sup>48 hours at 30°C and aerobic atmosphere on Trypticase Soy Agar, with 5% Sheep Blood (VWR 90001-282).

<sup>3</sup>Also consistent with other *Brucella* species.

**Figure 1**



**Date:** 09 JUN 2006

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication

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