

Certificate of Analysis for NR-233

Brucella abortus, Strain 292 (NCTC 10503)

Catalog No. NR-233

(Derived from ATCC® 23451™)

Product Description: *Brucella abortus* (*B. abortus*) is a non-motile, aerobic, gram-negative coccobacillus which displays a moderate degree of human virulence.

Lot¹: 4741462

Manufacturing Date: 07NOV2005

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony color and morphology ² 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 ATCC® 23451™ Positive Positive Positive (> 5 minutes) Report results Report results Report results Report results Report results Report results Report results Consistent with <i>Brucella abortus</i>	Gram-negative coccobacillus See Figure 1 Non-hemolytic Non-motile Identical to ATCC® 23451™ Positive Positive Positive (> 5 minutes) Negative Positive Positive Negative Positive Negative Positive Consistent with <i>Brucella abortus</i> (100% probability, 0.75 similarity index)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 bp)	Consistent with <i>B. abortus</i>	Consistent with <i>B. abortus</i> ³
Concentration of Viable Organisms (post-freeze)²	Report results	2.3 X 10 ¹⁰ CFU/mL

¹NR-233 was produced by inoculation of ATCC® 23451™ into Tryptic Soy Broth (VWR 90000-378).

²48 hours at 30°C and aerobic atmosphere on Trypticase Soy Agar, with 5% Sheep Blood (VWR 90001-282).

³Also consistent with other *Brucella* species.

Figure 1



Certificate of Analysis for NR-233

Date: 01 JUN 2006

Signature: Signature on file

Title: Technical Manager, BEI Authentication

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