b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-231

Brucella abortus, Strain 86/8/59 (NCTC 10501)

Catalog No. NR-231
(Derived from ATCC® 23449™)

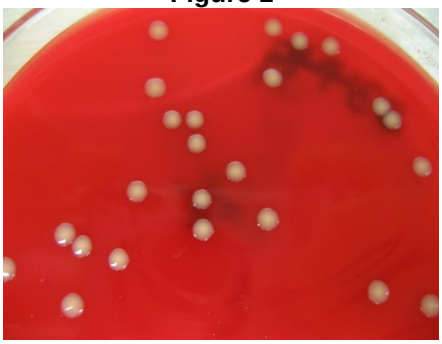
Product Description: *Brucella abortus* (*B. abortus*) is a non-motile, aerobic, gram-negative coccobacillus which displays a moderate degree of human virulence.

Lot[1]: 4741451 **Manufacturing Date: 31OCT2005**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative coccobacillus	Gram-negative coccobacillus
Colony color and morphology[2]	Report results	See Figure 1
Hemolysis	Non-hemolytic	Non-hemolytic
Motility	Non-motile	Non-motile
Biochemical tests	Identical to ATCC® 23449™	Identical to ATCC® 23449™
Catalase	Positive	Positive
Oxidase	Positive	Positive
Urease	Positive (> 5 minutes)	Positive (> 5 minutes)
Indole	Report results	Negative
Hydrogen sulfide production	Report results	Positive
Nitrate	Report results	Positive
Arginine dihydrolase	Report results	Negative
Arabinose	Report results	Negative
Glucose	Report results	Negative
Xylose	Report results	Negative
Biolog™ (GN2 Microplate™)	Consistent with *Brucella*	Consistent with *Brucella*
Single Nucleotide Polymorphism Sequencing	Consistent with *B. abortus*	Consistent with *B. abortus*
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1430 bp)	Consistent with *B. abortus*	Consistent with *B. abortus*[3]
Concentration of Viable Organisms (post-freeze)[2]	Report results	2.3 X 10^{10} CFU/mL

[1]NR-231 was produced by inoculation of ATCC® 23449™ into Tryptic Soy Broth (VWR 90000-378).
[2]48 hours at 30°C and aerobic atmosphere on Trypticase Soy Agar, with 5% Sheep Blood (VWR 90001-282).
[3]Also consistent with other *Brucella* species.

Figure 1



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Certificate of Analysis for NR-231

Date: 01 JUN 2006

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