

# Product Information Sheet for NR-3871

## *Mycoplasma bovis*, Strain PG 11

### Catalog No. NR-3871

This reagent is the property of the U.S. Government.

### Lot (NIAID) Number: M-731-001-084

### For research use only. Not for human use.

#### Contributor:

National Institute of Allergy and Infectious Diseases (NIAID),  
National Institutes of Health (NIH)

#### Manufacturer and Contract:

Huntingdon Research Center, PH-43-68-1516

#### Product Description:

Reagent: Seed

Classification: *Mycoplasmataceae*

Species: *Mycoplasma bovis* (*M. bovis*)

Type Strain: PG 11

NIAID Class: Research Reference Reagent

Donor: Dr. D. G. Edward

Donor Passage History (# of passages): Unknown

Producer Passage History (# of passages): 3

**Note:** BEI Resources was asked to distribute this bacterial preparation from NIAID's historical repository. Historical characterization information is shown below in the Functional Activity and Purity sections.

#### Material Provided:

Each vial contains approximately 1.0 mL of *M. bovis* grown in Complete *Mycoplasma* broth (Medium JJJ, see Appendix I for media composition).

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

#### Storage:

NR-3871 was packaged in vials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

#### Functional Activity:

Potency:

Titer: 10<sup>8</sup> colony-forming units per mL, in 11 days on medium K (see Appendix I for media composition).

Date of Last Test: January, 1971

#### Purity:

Homologous Antiserum Testing: Demonstrated inhibition when tested against a specific homologous antiserum. No evidence of heterotypic mycoplasma.

#### Heterologous Antiserum Testing:

Disc Inhibition and Fluorescent Antibody: Negative when tested against *M. arthritis*, *M. canis*, *M. fermentans*, *M. gallinarum*, *M. gallisepticum*, *A. granularum*, *M. hominis*, *M. hyorhinis*, *A. laidlawii* A, *A. laidlawii* B, *M. maculosum*, *M. orale* 1, *M. orale* 2, *M. pneumoniae*, *M. pulmonis*, *M. salivarium*, *M. spumans*, *M. lipophilum*, *M. neurolyticum*, *M. arginini*, *M. meleagridis*, *M. bovirhinis* and *M. orale* 3.

Separate Disc Inhibition: Negative when tested against *M. arthritis*, *M. hyorhinis*, *M. iners*, and *M. anatis*.

Separate Fluorescent Antibody: Negative when tested against *M. primum*.

Bacterial Sterility: Negative

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycoplasma bovis*, Strain PG 11, NR-3871."

#### Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

#### Disclaimers:

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## References:

1. Edward, D. G. "An Investigation of Pleuropneumonia-Like Organisms Isolated from Bovine Genital Tract." J. Gen. Microbiol. 4 (1950): 4-15. PubMed: 15415551.

2. Nicholas, R. A., et al. "Close Genetic and Phenotypic Relatedness between *Mycoplasma* Ovine/Caprine Serogroup 11 and *Mycoplasma bovis*." Syst. Appl. Microbiol. 25 (2002): 396-402. PubMed: 12421077.
3. NIAID Catalog of Research Reagents 1978-1980. U.S. Department of Health, Education, and Welfare Publication No. (NIH) 78-899. Ed. S. Cunningham. NIAID/NIH, Bethesda, MD, USA.

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## Appendix I: Media<sup>3</sup>

### Complete *Mycoplasma* broth (Medium JJJ)

<i>Mycoplasma</i> broth base	8.5%
Normal horse serum	1%
Yeast Extract (25%)	0.5%
Penicillin	1000 units/mL
Phenol red	0.002%

### Medium K

Difco™ Heart Infusion agar	
Horse serum	16%
Fresh yeast extract	8%
Penicillin G	400 I.U./mL
DNA (Sigma)	0.002%
pH 7.8	