

***Mycoplasma fermentans*, Strain PG 18**

Catalog No. NR-3851

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Lot (NIAID) Number: M-713-002-084

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:

Baltimore Biological Laboratory, PH-43-67-1468

Product Description:

Reagent: Seed

Classification: *Mycoplasmataceae*

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

Type Strain: PG 18

NIAID Class: Research Reference Reagent

Donor: Laboratory of Infectious Diseases, NIAID

Donor Passage History (# of passages): 3x cloned

Producer Passage History (# of passages): 10

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 0.5 mL of *M. fermentans* grown in Complete *Mycoplasma* broth (Medium J, see Appendix I for media composition).

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

Storage:

NR-3851 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: 5.1 × 10⁶ colony-forming units per mL, in 11 days on medium A (see Appendix I for media composition).

Date of Last Test: December 1970

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. arthritidis*, *M. gallisepticum*, *A. granularum*, *M. hominis*, *M. hyorhinis*, *A. laidlawii* A, *A. laidlawii* B, *M. orale* 1, *M. orale* 2, *M. pneumoniae*, *M. pulmonis*, *M. salivarium* and *M. spumans*.

Separate Disc Inhibition: Negative when tested against *M. arthritidis*, *M. canis*, *M. gallinarum*, and *M. iners*.

Separate Fluorescent Antibody: Negative when tested against *M. primum*, *M. lipophilum*, and *M. arginini*.

Bacterial Sterility: Negative

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycoplasma fermentans*, Strain PG 18, NR-3851."

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/bmb15/index.htm.

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References:

1. Edward, D. G. ff and E. A. Freundt. "The Classification and Nomenclature of Organisms of the Pleuropneumonia Group." *J. Gen. Microbiol.* 14 (1956): 197-207. PubMed: 13306904.

2. 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: Media²

Complete *Mycoplasma* broth (Medium J)

<i>Mycoplasma</i> broth base	78%
Horse serum	20%
Yeast extract dialysate	2%
Penicillin	1000 units/mL
Phenol Red	0.002%

Medium A

BBL. PPLO broth	7%
Yeast extract (25%)	1%
Unheated mule serum	2%
Penicillin	1000 units/mL
Thallium acetate	1:2000