

Product Information Sheet for NR-3976

Polyclonal Anti-*Mycoplasma maculosum*, PG 15 (antiserum, Donkey)

Catalog No. NR-3976

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

Lot (NIAID Catalog) No. M727-501-571

For research use only. Not for use in humans.

Contributor

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

Manufacturer:

Huntingdon Research Center, PH43-68-1516, United Kingdom.

Product Description:

Reagent: Polyclonal antiserum

Host: Donkey

Immunizing Antigen: *Mycoplasma maculosum* (*M. maculosum*), PG 15, concentrated by centrifugation, in Freund's complete adjuvant

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

Material Provided:

Content: Lyophilized donkey antiserum

Original Volume: 0.5 mL

Storage Temperature: 4°C

Functional Activity (tested October 1971):

Disc Growth Inhibition Test

Antiserum disc: Filter-paper discs were impregnated with 0.02 mL antiserum, dried overnight at 37°C, and stored at 4°C

Test plate: *M. maculosum* and other mycoplasma species cultures containing 1 x 10⁵ colony forming units (cfu) were inoculated onto plates and dried; the antiserum-impregnated discs were placed in the inoculation zone

Time and temperature: 4 days at 37°C

Result: 6.5 mm zone of inhibition; specific for *M. maculosum*

Metabolic Inhibition Test

Test preparation: Serial two-fold dilutions of antiserum (heat-treated at 56°C for 30 minutes) were mixed with *M. maculosum* and other mycoplasma species and added to wells of a microtiter plate

Temperature: 37°C

Reading: Endpoint was recorded as the highest antiserum dilution which prevented tetrazolium reduction

Titer: 1:262144; specific for *M. maculosum*

Indirect Hemagglutination Test

Antigen: Supernatant fluid from an ultrasonically treated *M. maculosum* suspension

Red blood cells: Tanned sheep red blood cells (1% suspension) and sensitized at pH 7.2 with *M. maculosum*

Test preparation: Serial two-fold dilutions of antiserum (heat-treated at 56°C for 30 minutes) were mixed with washed, packed *M. maculosum*-sensitized red blood cells (1 mL/ mL of antiserum)

Time and temperature: 30 minutes at 4°C

Titer: 1:4194304

Complement Fixation Test

Antigen: Phenol treated

Red blood cells: Sensitized at pH 7.2 with antibody to sheep red blood cells

Test preparation: Antiserum/antigen mixtures were incubated overnight at 4°C before the addition of sensitized sheep red blood cells. Two units of complement and two units of hemolysin were added.

Time and temperature: 30 minutes at 37°C

Reading: The titer was defined as the highest antiserum dilution at which 75% of the sheep erythrocytes were not hemolyzed.

Titer: 1:1024

Purity (tested October 1971):

Bacterial Sterility: Negative

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-*Mycoplasma maculosum*, PG 15 (antiserum, Donkey), NR-3976."

Biosafety Level: 1

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Wallace, C. A. "*Mycoplasma* Species Identification Based Upon Growth Inhibition by Specific Antisera." J. Immunol. 92 (1964): 958-965.
2. Taylor-Robinson, D., et al. "A Colour Test for the Measurement of Antibody to Certain *Mycoplasma* Species Based Upon the Inhibition of Acid Production." J. Hyg. Camb. 64 (1966): 91-104.

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