

TEST UPDATE

Mycoplasma pneumoniae with Macrolide Resistance Reflex, PCR UVM Medical Center

Effective 9/28/26, Mycoplasma pneumoniae with Macrolide Resistance Reflex, PCR (Mayo MPRP) will replace Mycoplasma pneumoniae Antibodies, IgG and IgM, Serum (Mayo MYCO) testing. Based on current CDC recommendations and peer-reviewed research, IgG and IgM serologic assays have low specificity and low sensitivity during early infection and cannot distinguish between past and current infections. Additionally, serology testing is a paired sera test, often requiring multiple patient visits over two weeks to establish a diagnosis. Mycoplasma pneumoniae with Macrolide Resistance Reflex, PCR has higher sensitivity and specificity, faster turnaround times, and additionally can predict antibiotic susceptibility. For future *M. pneumoniae* testing in the acute setting, ***please exclusively utilize PCR testing.***

Test Build Information:

New Orderable	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code(s)
Mycoplasma pneumoniae with Macrolide Resistance Reflex, PCR	LAB17962	LAB17962	MPRP	29257-3	87581
Specimen Source	12301021618	MSRCMP	SRCMP	31208-2	*AOE
M. pneumoniae PCR	12301021619	M62394	62394	29257-3	
Specimen Requirements:					
Container	Specimen	Temperature	Collect Vol	Submit Vol	Stability
Swab	Throat, Nasal, or NP	Refrigerated	Swab	Swab	7 days
Collection Information:					
Frozen (acceptable) = 7 days.					
Collect specimen by swabbing back and forth over mucosa surface to maximize recovery of cells.					
Place swab back into swab cylinder.					
*Ask at Order Entry (AOE)					
Options for resulting are Throat, Nasal, or Nasopharyngeal.					

New Reflex-Only Test (not orderable)	Epic Code	Atlas Code	Mayo Test ID	Order LOINC	CPT Code(s)
M. pneumoniae Macrolide Resist, PCR	LAB17963	LAB17963	RPMPM	6483-2	87798
Specimen Source	12301021618	MSRCMP	SRCMP	31208-2	Mayo to result
M. pneumoniae Macrolide Resistance	12301021620	M619928	619928	6483-2	

Tests to be Discontinued	Epic Code	Atlas Code	Mayo Test ID
Mycoplasma pneumoniae Antibodies, IgG and IgM, S.	LAB243	MPNEU1	MYCO
M. pneumoniae Ab, IgG and IgM, S. by IFA (Reflex-Only)	LAB9885	MMYCP6	MMYCO

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Pathology & Laboratory Medicine

Location

111 Colchester Ave.
Burlington, VT 05401

Lab Customer Service

802-847-5121
802-991-2799

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References:

[Laboratory Testing for Mycoplasma pneumoniae | M. pneumoniae | CDC](#)

Gao L, Sun Y. Laboratory diagnosis and treatment of *Mycoplasma pneumoniae* infection in children: a review. *Ann Med*. 2024;56(1):2386636.

Nilsson AC, Björkman P, Persson K. *Polymerase chain reaction is superior to serology for the diagnosis of acute Mycoplasma pneumoniae infection and reveals a high rate of persistent infection*. BMC Microbiol. 2008.

Qu J, Gu L, Wu J, et al. *Accuracy of IgM antibody testing, FQ-PCR and culture in laboratory diagnosis of acute infection by Mycoplasma pneumoniae in adults and adolescents with community-acquired pneumonia*. BMC Infect Dis. 2013.

Tang M, Wang D, Tong X, et al. *Comparison of different detection methods for Mycoplasma pneumoniae infection in children with community-acquired pneumonia*. BMC Pediatrics. 2021.

For questions or concerns regarding this change, please contact UVMHC Laboratory Operations Support at (802)847-5121 and ask to speak with Microbiology.

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