

Mycoplasma pneumoniae

IgG, IgM, IgA EIA



NEW !
Interchangeable

SUBS	TMB	
SOLN	STOP	
BUF	WASH	10X

NEW !
Strip identification

Sensitive assays for *Mycoplasma pneumoniae* diagnosis

- Proven sensitivity and specificity for acute infection
- Can be run in parallel with Ani Labsystems' Chlamydia pneumoniae EIA and Bordetella pertussis EIA tests
- Washing solution, TMB-substrate and stop solution are interchangeable and can be also ordered separately
- Individual labelling of the strips for identification

Reliable EIA assays for *Mycoplasma pneumoniae* detection

Mycoplasma pneumoniae is Gram-negative bacterium commonly responsible for infections of the upper and lower respiratory tract. It is the most common source of atypical pneumonia, with children and young adults most at risk of infection. Cases may range from mild infection to serious atypical pneumonia.

Traditional diagnostic tests, such as cold agglutinins and complement fixation (CF), are insensitive, complicated and do not distinguish antibody classes. Ani Labsystems' IgG, IgA and IgM EIA assays, however, can be used accurately and specifically to diagnose *M. pneumoniae* infection.

Upon diagnosis, *M. pneumoniae* infections can be treated effectively with the correct choice of antibiotics. Therefore, rapid, sensitive and accurate detection methods are vital.

Summary of the evaluation studies

Seroconversion and single *M. pneumoniae* sera, RSV, Influenza A, EBV and Chlamydia pneumoniae sera were analysed by Ani Labsystems' *M. pneumoniae* IgG, IgA and IgM EIA's and compared to two competitors' EIAs.

The true positive cases for acute *Mycoplasma pneumoniae* were interpreted as an agreement of all three EIA methods.

	Comp. EIA1 (%)	Comp. EIA2 (%)	Ani Labsystems (%)
Sens.	100	100	100
Spec.	93	64	95
PV pos	74	27	80
PV neg	100	100	100
Efficiency	94	68	96

Ani Labsystems' EIAs employing P1-enriched protein were found the most efficient to diagnose reliably acute *Mycoplasma pneumoniae* infection.

Superior, sensitive and specific

In addition to the clinical evaluation another European study compared 12 commercial serologic tests for *Mycoplasma pneumoniae* IgG and IgM (mostly EIAs) and a complement fixation test with PCR as "the gold standard" .

Ani Labsystems' *Mycoplasma pneumoniae* IgM EIA test showed the best performance with the sensitivity of 77 % and specificity of 92%. Ani Labsystems' *Mycoplasma pneumoniae* IgG EIA had one of the best sensitivities for the detection of the increase in IgG titer (Beersma et al. 2005. J. Clin. Microbiol. 43 (5) 2277).

A convenient procedure and ready-for-use reagents

Ani Labsystems' *M. pneumoniae* IgG, IgA and IgM EIA detection kits come with ready-to-use reagents. IgG and IgA kits include calibrators to give semi-quantitative results. The convenient procedures are simple and the same prediluted sample is used for all three assays.

In addition, the tests can be run in parallel with Ani Labsystems' tests for *Chlamydia pneumoniae* and *Bordetella pertussis* using the similar microplate format, procedure and same sample predilution.

New !

The washing solution, TMB-substrate and stopping solution are interchangeable between different lots and also between Ani Labsystems' respiratory products (*C. pneumoniae*, *M. pneumoniae*, *B. pertussis* antibody kits) and *C. trachomatis* antibody kits (see the product list).

New !

The abbreviation of each test is printed on single strips for identification.

Procedures

Mycoplasma pneumoniae IgG, IgA and IgM EIA

Dilute the specimen into the sample diluent
5 µl+500 µl (1:101)

For IgG & IgA: use 50 µl of the prediluted sample plus 50 µl of the sample diluent

For IgM: use 50 µl IgG removing reagent and add 50 µl of the prediluted sample

For all three assays:

- Incubate for 1 hour at 37 °C
- Wash
- Add 100 µl conjugate
- Incubate for 1 hour 37 °C
- Wash
- Add 100 µl substrate
- Incubate for 30 minutes at RT in dark
- Add 100 µl stopping solution
- Read at 450 nm

Ordering Information

6111300	C. pneumoniae IgG EIA	96 wells	€0537
6111310	C. pneumoniae IgA EIA	96 wells	€0537
6111320	C. pneumoniae IgM EIA	96 wells	€0537
6108380	C. pneumoniae IgG/IgM MIFA	20x21 wells	€0537
6108382	C. pneumoniae IgG/IgM MIFA	20x12 wells	€0537
6108390	C. pneumoniae IgA MIFA	20x21 wells	€0537
6108392	C. pneumoniae IgA MIFA	20x12 wells	€0537
6108384	C. pneumoniae slides	5x21 wells	€0537
6111400	M. pneumoniae IgG EIA	96 wells	€
6111410	M. pneumoniae IgA EIA	96 wells	€
6111420	M. pneumoniae IgM EIA	96 wells	€
6111500	B. pertussis IgG EIA	96 wells	€
6111510	B. pertussis IgA EIA	96 wells	€
6111520	B. pertussis IgM EIA	96 wells	€
6111045	Washing Solution, 10x	100 ml	
6111055	TMB-Substrate Solution	18 ml	
6111060	Stopping Solution, 0,45 M H ₂ SO ₄	25 ml	