

Bordetella pertussis

IgG, IgA, IgM EIA

NEW !
Interchangeable

SUBS	TMB	
SOLN	STOP	
BUF	WASH	10X



NEW !
Strip identification

Dedicated EIA tests for *Bordetella pertussis* infections

- For finding infection when culture isolation or PCR detection are negative
- Can be run in parallel with Ani Labsystems' Chlamydia pneumoniae EIA and Mycoplasma pneumoniae EIA tests
- Washing solution, TMB-substrate and stop solution are interchangeable and can also be ordered separately
- Individual labelling of the strips for identification

Sensitive EIA assays for *Bordetella pertussis* diagnosis

Bordetella pertussis infection is reported as a re-emerging disease even in countries with high vaccination coverage. The incidence of *Bordetella pertussis* infections has especially increased in adolescents and adults. In these patients, the clinical picture is often atypical. Several outbreaks in schools have been found, and patients may transmit the disease to young infants who may develop a life-threatening condition

Serology – an important tool

Isolation of the organism from nasopharyngeal samples or detection by PCR are effective only in the earlier stages of infection, while in the prolonged or convalescent phase of the infection, the sensitivity of isolation is remarkably low. Earlier immunizations even lower this sensitivity.

Thus, serology is considered a valuable tool to reliably diagnose infection, especially in its later course. Although the identification of the *B. pertussis* diagnosis by serology usually occurs relatively late during the disease, the diagnosis is important for early therapy (and prophylaxis) of contact persons.

It is also important to differentiate *B. pertussis* from other diseases causing prolonged cough, such as bronchial asthma and infections caused by *Mycoplasma pneumoniae* and *Chlamydia pneumoniae*.

New tests enable automation

The Ani Labsystems *Bordetella pertussis* IgG, IgA and IgM EIAs come with ready-to-use reagents, and are thus suitable for automation. The new assays also use the same predilutions and incubation times as Ani Labsystems' *Chlamydia pneumoniae* EIA and *Mycoplasma pneumoniae* EIA assays, so the antibodies to all three micro-organisms can be run in parallel.

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.

Comparison with other tests

When tested with suspected samples and compared to two other (commercial and in-house) EIA methods, the concordances were 94 % for IgG, 94 % for IgA and 95 % for IgM EIA.

Clinical evaluation

A clinical evaluation (320 confirmed samples) was run in *Bordetella pertussis* reference laboratory in Finland

Specificity

Tests	Culture-neg. and seroneg. samples	Specificity %
B. pertussis IgG EIA	161	95
B. pertussis IgA EIA	161	96
B. pertussis IgM EIA	161	93

Sensitivity

In the clinical evaluation the tests were compared with 47 culture-proven positive samples. 45 (96 %) of those 47 samples were found positive with at least one of Ani Labsystems IgG, IgA and IgM EIAs after the second serum illustrating the seroconversion.

Procedures

Bordetella pertussis IgG, IgA and IgM EIA

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

For IgG: use 100 µl prediluted sample

For IgA: use 50 µl sample diluent + 50 µl prediluted sample

For IgM: use 50 µl IgG removing reagent and add 50 µl 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 H ₂ SO ₄	25 ml	