

## LIAISON<sup>®</sup> Bordetella pertussis Toxin IgG and IgA

The first fully automated solution for specific  
and accurate antibody detection



# Infectious Disease

## LIAISON® Bordetella pertussis Toxin IgG LIAISON® Bordetella pertussis Toxin IgA

### A new standard of diagnosing pertussis on a fully automated platform has been reached

Pertussis, commonly known as whooping cough, is an acute respiratory infectious disease caused by the bacterium *Bordetella pertussis*. Despite extensive childhood immunisation, pertussis remains one of the world's leading causes of vaccine-preventable deaths. The detection of *Bordetella pertussis* Toxin IgG and IgA is needed to differentiate between recent *Bordetella pertussis* infection and for late stage of disease, especially in older children and adults.

### Interpretation of IgG and IgA combined results

According to the European Reference Centres<sup>(1)</sup> for testing *Bordetella pertussis*, both IgG and IgA results must be determined in a single specimen. 931 specimens from routine testing of European and Australian laboratories were tested with LIAISON® assays and reference EIA methods. The following prevalence was obtained in the study, for IgG and IgA combined results:

<i>B. pertussis</i> IgG	<i>B. pertussis</i> IgA	Interpretation	Prevalence by LIAISON®	Prevalence by reference EIA
Negative	Negative	No infection	738 (79.3%)	736 (79.1%)
Negative	Positive	Recent infection	66 (7.1%)	80 (8.6%)
Intermediate	Positive	Recent infection	17 (1.8%)	22 (2.4%)
Positive	Positive	Recent infection	32 (3.4%)	31 (3.3%)
Positive	Negative	Recent infection	28 (3.0%)	16 (1.7%)
Intermediate	Negative	No recent infection	50 (5.4%)	46 (4.9%)

**The first fully automated solution with optimal diagnostic performance for pertussis diagnosis**

<sup>(1)</sup> Guiso N. et al. What to do and what not to do in serological diagnosis of pertussis: recommendations from EU reference laboratories. Eur J. Clin. Microbiol Infect Dis. 2011; 30: 307-3012

### Main features of LIAISON® Bordetella pertussis Toxin assays

**Sample Type:** serum or plasma

**Assay format:** CLIA quantitative indirect assays

**Calibration:** to first International WHO 1st IS NIBSC Code 06/140

**Solid phase:** magnetic particles coated with purified *Bordetella pertussis* Toxin antigen

**Measuring range:** 10 – 140 IU/mL *Bordetella pertussis* Toxin IgG

**Measuring range:** 6 – 100 IU/mL *Bordetella pertussis* Toxin IgA

**Calibration Stability:** 4 weeks

**Integral on board stability:** 8 weeks

**Number of tests:** 100

### Ordering information

LIAISON® Bordetella pertussis Toxin IgG code 318850

LIAISON® Bordetella pertussis Toxin IgA code 318860

LIAISON® Control Bordetella pertussis Toxin IgG code 318851

LIAISON® Control Bordetella pertussis Toxin IgA code 318861

AVAILABLE ON **LIAISON®** SYSTEMS

Product availability subject to required regulatory approval



The Diagnostic Specialist

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