

## INTRODUCTION

apDia is manufacturer/distributor of *in vitro* diagnostics. We are the official distributor of all R-Biopharm products for clinical diagnostics (ELISA, rapid tests and PCR kits) in Belgium. Recently we can also offer R-Biopharm ELISA kits for serology on the Dutch market. Furthermore we distribute Dynex ELISA instruments.

## DYNEX INSTRUMENTS AND SERVICE

apDia is distributor of the **Dynex instruments DS2 en DSX** in Belgium and in the Netherlands.

Dynex is a leading manufacturer of microplate instrumentation, seamlessly integrating advanced detection with fully-automated sample handling, consumables and accessories. The DS2 is a compact full walkaway instrument that can quickly and easily process two 96-well microplates and up to 12 different assays simultaneously. This flexible open system is ideal for virtually any ELISA application. For labs processing larger numbers of samples there is the modular fully-automated DSX (four 96-well plates).



In addition we have an excellent after sales service. Our team of certified technicians is standby for support as well as repair/maintenance of your instrument.

## R-BIOPHARM SEROLOGY IN THE NETHERLANDS

Through apDia, the R-Biopharm ELISA kits for serology are now also available in the Netherlands.

The R-Biopharm test systems for infectious diseases cover all important areas of modern serological diagnostics. All ELISA test kits are highly specific and sensitive for the respective pathogens. The use of common reagents allows parallel testing of different parameters. Single-point evaluation and short incubation times save time and money. All kits are CE labeled and validated for automatic systems.

If you wish to receive more information contact the apDia sales representative for The Netherlands, James Kessels. He has a broad knowledge of *in vitro* diagnostics (instruments and reagents) and many years of experience as salesman of these products.

## R-BIOPHARM CLOSTRIDIUM DIFFICILE GDH RAPID TEST

Lately a new R-Biopharm rapid test for *Clostridium difficile*, one of the most prevailing hospital pathogens<sup>1</sup>, is available. **RIDA®QUICK *Clostridium difficile* GDH** is a rapid test for the sensitive detection of the bacterial glutamate dehydrogenase (GDH). This enzyme appears in relatively high copy numbers, which makes it a very adequate marker.



Source photo: <http://nationareport.net/superbug-virus-outbreak-in-eastern-u-s-claims-several-victims/>

Using this quick and easy test, detection of *C. difficile* in stool samples is possible within 15 minutes.

The rapid tests has a NPV of 100 % and a PPV of 96,7%.

The growing importance of this nosocomial pathogen has led to a renewed strategy for the diagnosis of *C. difficile* infection. The primary goal is to detect the presence of the pathogen in order to prevent its spread to hospitalized patients, independent of whether toxigenic or non-toxicogenic strains of *Clostridium difficile* are present. The **RIDA®QUICK *Clostridium difficile* GDH rapid test (N0703)** is very well fit for this first screening phase. Subsequently confirmation is done in a second phase by means of a toxin A/B determination, which is obligatory for *C. difficile* infection diagnosis.

## R-BIOPHARM BORDETELLA PCR

Pertussis or whooping cough is an acute respiratory infection caused by *Bordetella pertussis*, *B. parapertussis* and *B. holmesii* cause less common a whooping cough-like illness that is in general milder. Because protection from vaccination is limited in time (5-10 y) transmission of the disease still occurs even in highly vaccinated populations<sup>2</sup>. A recent study suggests lack of cross-protection against *B. holmesii* after pertussis vaccination<sup>3</sup>.



Source photo: <http://www.bode-science-center.com/center/relevant-pathogens-from-a-z/bordetella-pertussis.html>

Several laboratory methods (culture, serology and PCR) are available. Culture is almost 100% specific, but requires special media and takes at least 1 week. Serology is unfit for diagnosis in an early stadium of the disease: antibodies can be detected at earliest 2 weeks after infection or vaccination.

### SOON AVAILABLE!

**RIDA®GENE *Bordetella* (PG2505)** is a real-time multiplex PCR for the qualitative detection of *Bordetella pertussis*, *Bordetella parapertussis* and *Bordetella holmesii* in human nasopharyngeal swabs and washes in the first 4 weeks after cough onset. In addition this PCR allows the differentiation of the pathogenic *Bordetella* species.

## WORKSHOP

On Tuesday 15 October 2013 the **Workshop "Parasieten en *Clostridium difficile*, nader bekeken"** will take place in Turnhout. This event is being organized by apDia in collaboration with R-Biopharm and will a. o. cover following topics:

- Parasitology: PCR, ELISA, rapid test or still microscopy?
- *C. difficile*, is testing GDH first a better strategy?
- Serology: is there still room for it, next to PCR?

## REFERENCES

1. Kufelnicka AM, Kirn TJ. Effective utilization of evolving methods for laboratory diagnosis of *Clostridium difficile* infection. *Clin. Infect. Dis.* (2011) **45**: 992-998.
2. Riffelmann M et al. Nucleic Acid amplification tests for diagnosis of *Bordetella* infections. *J. Clin. Microbiol.* (2005) **43**(10): 4925-4929.
3. Zhang X et al. Lack of Cross-protection against *Bordetella holmesii* after Pertussis Vaccination. *Emerg. Infect. Dis.* (2012) **18**(11): 1771-1779.

On the backside of this newsletter you can find a reply form to request more detailed information about the products mentioned above.

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**apDia is the official distributor of the R-Biopharm products in Belgium!**  
**apDia is the official distributor of R-Biopharm serology in the Netherlands!**

I wish to receive additional information about the following topics:

- DYNEX INSTRUMENTS AND SERVICE
- R-BIOPHARM SEROLOGY IN THE NETHERLANDS
- R-BIOPHARM CLOSTRIDIUM DIFFICILE GDH RAPID TEST
- R-BIOPHARM BORDETELLA PCR
- WORKSHOP: "PARASieten EN CLOSTRIDIUM DIFFICILE, NADER BEKEKEN"
- I AM USING R-BIOPHARM PRODUCTS ALREADY. HOW CAN I ORDER R-BIOPHARM PRODUCTS FROM apDia?
- OTHER: .....

Sales representative Belgium: Laurent Nijs

Sales representative The Netherlands: James Kessels

Please, send us this reply form by fax using the number +32 (0)14 81 29 45, by e-mail to [admin@apdia.be](mailto:admin@apdia.be) or by regular mail to apDia, Hertoginstraat 82, B-2300 Turnhout, Belgium.