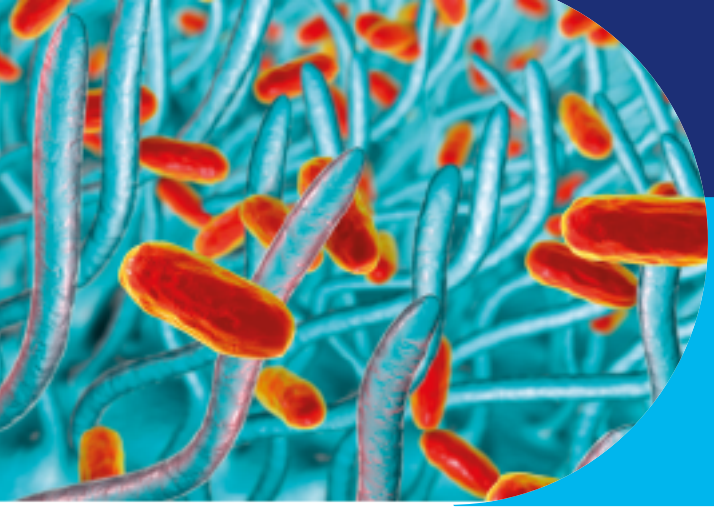

BD

# VIASURE *Bordetella* Real Time PCR Detection Kit for BD MAX™ System

## The need for *Bordetella* species differentiation

The genus *Bordetella* is comprised of eight species, four of which are known to infect humans: *B. pertussis, B. parapertussis, B. holmesii and B. bronchiseptica*. The **main cause of whooping cough (pertussis) is B. pertussis infection.** *B. parapertussis* and *B. holmesii* have been isolated from patients with a serious underlying disease, whereas *B. bronchiseptica* is usually restricted to animals but occasionally has also been isolated from immunocompromised patients.

**Whooping cough is a very contagious disease** which spreads from person to person usually by coughing or sneezing, or by close contact with an infected person in a common breathing space. Despite vaccination, **pertussis remains endemic in most areas of the world.** Reliable diagnosis is required to start appropriate treatment and prophylaxis if needed. **Nucleic acid amplification tests,** including PCR and more recently real-time PCR, **overcome some of the limitations of culture and serological methods** for the diagnosis of *Bordetella* infections.

## Discover the assay

The **VIASURE *Bordetella* assay** is an automated assay including real-time polymerase chain reaction (PCR) for qualitative detection and differentiation of **DNA from *Bordetella pertussis, Bordetella parapertussis,*** and/or ***Bordetella holmesii*** in respiratory samples from patients suspected of respiratory infection by their healthcare professional.

This test also includes a sample processing control.

This assay can be run on the BD MAX™ System **in combination with a BD MAX™ TNA-3 extraction kit** that contains dried extraction reagents, the sample buffer tube as well as the unitised reagent strip containing all liquid reagents and disposable pipette tips required for specimen processing and total nucleid acid (TNA) extraction.

## Sample types

- Nasopharyngeal swabs
- Nasopharyngeal aspirates

## Workflow and time to results

Results obtained in about **2 hours for 24 samples**

Less than **1.5 minutes of hands-on time** in sample preparation

**Compatibility to run alongside other BD MAX™ assays** for greater flexibility. To be noted that the VIASURE *Bordetella* assay is **ONLY rack compatible with other VIASURE assays.** The second rack can be loaded with other types of BD MAX™ assays.

# Ready-to-use reagents storable at room temperature

## VIASURE *Bordetella* Real Time PCR Detection Kit for BD MAX™ System

| REF | Contents | Quantity |
|---|---|---|
| 444204 | **VIASURE *Bordetella* assay – Reaction tube**<br>Lyophilised PCR Master Mix containing specific molecular probes and primers along with Sample Processing Control and PCR enzyme | 24 tests<br>(2 x 12 tubes) |
| | **VIASURE *Bordetella* assay – Rehydration Buffer Tube**<br>Solution to reconstitute the stabilised product | 24 tubes |

## Requires BD MAX™ ExK™ TNA-3

| | | |
|---|---|---|
| 442828 | **BD MAX™ ExK™ TNA Extraction Tube (B4)**<br>Dried extraction reagent: magnetic affinity beads, Proteinase K and Specimen Processing Control | 24 tests<br>(2 x 12 tubes) |
| | **BD MAX™ ExK™ TNA-3 Sample Buffer Tube** | 24 tubes |
| | **BD MAX™ TNA Reagent Strip**<br>Unitised reagent strip containing wash buffer, elution buffer and neutralisation buffer reagents, as well as disposable pipette tips necessary for sample processing and TNA extraction | 24 strips |
| | **Conical Tubes** | 24 |
| | **Septum Caps** | 25 |

# Rapid, targeted testing on the BD MAX™ System

The innovation of the BD MAX™ System offers you a **fully integrated, automated real-time PCR platform** with the possibility of running multiple assays simultaneously.* Its automated workflow **reduces manual tasks** to achieve rapid, reliable results and facilitates off-hour testing, helping to **offset molecular testing costs**.** [3,4]

## Snap

Assemble unitised reagent strips with ready-to-use reagents.

## Load

Load Sample Buffer Tubes, Racks and PCR cartridges.

## Go

Come back in an average of 2.5 hours for results.***

**Discover our full assay portfolio and the BD MAX™ System**

advancing-diagnostics.eu

advancingdiagnostics@bd.com


**VIASURE *Bordetella* [IFU 444204], Zaragoza, CerTest Biotec, S.L., 2022.**
**BD MAX™ ExK™ TNA Extraction Kit [IFU 442828], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021.**

**1.** Centers for Disease Control and Prevention. Pertussis (Whooping Cough) (https://www.cdc.gov/pertussis/).
**2.** World Health Organization. Pertussis (https://www.who.int/health topics/pertussis#tab=tab_1).
**3.** Mortensen JE, et al. Comparison of time-motion analysis of conventional stool culture and the BD MAX Enteric Bacterial Panel (EBP). *BMC Clin Pathol.* 2015;15:9.
**4.** Hirvonen JJ, et al. Comparison of BD Max Cdiff and GenomEra *C. difficile* molecular assays for detection of toxigenic Clostridium difficile from stools in conventional sample containers and in FecalSwabs. *Eur J Clin Microbiol Infect Dis.* 2015;34(5):1005-1009.


* BD assays are run & rack compatible – Only MDR-TB and GBS are not run and rack compatible / Vaginal Panel and open systems' assays are only run compatible.
** When compared to culture or immunochromatographic antigen (IA).
*** Time is assay dependent. 4 hours for full results on MDR-TB assay.