

Bordetella R-gene™ - ref.: 69-011





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EXTRACTION

- IN EXTRACTION ROOM -

- · Schedule a pre-treatment for mucous samples.
- Homogenize IC2 and samples to be analysed:

Respiratory specimens

- Add 10 µL IC2 to the appropriate volume of each sample to be extracted in 1 extraction tube.
- Add 10 µL IC2 to the appropriate volume of W0 in 1 extraction tube.
- · Perform extraction as below:

INSTRUMENTS	КІТ	SAMPLE + IC2 VOLUMES	PROTOCOL	ELUTION VOLUME
	QIAamp® DNA Blood Mini Kit			100 μL
	High Pure PCR Template Preparation Kit		Bacteria and Yeast	200 μL
QIAcube	QIAamp® DNA Blood Mini Kit	+ 10 µL	Blood and body fluid spin protocol V3	
MagNA Pure Compact®	MagNA Pure Compact Nucleic Acid Isolation Kit I	of sample	Total_NA_Plasma _100_400	100 μL
MagNA Pure LC System®	re LC System® MagNA Pure DNA Isolation Kit I		DNA I Blood_Cell High Performance	
NucliSENS® easyMAG™	NucliSENS® Magnetic extraction reagents		Specific A 1.0.2	

Store extracted samples and reagents at -18°C/-22°C

ANCILLARY REAGENTS:

- CELL Control r-gene™ ref.: 71-106
- Colour Compensation r-gene[™] ref.: 71-103 for LightCycler® 2.0 Instruments use only.

GLOSSARY:

IC2 Internal Control 2

R11 **Bordetella Amplification Premix**

CT **Crossing Threshold** Water for extraction

Sample Extraction + Inhibition Control IC2sample IC2W0 Reference Extraction + Inhibition Control

AMPLIFICATION

- IN AMPLIFICATION ROOM -

Validated on:

LightCycler[®] 530 & 560

SmartCycler[®] FCTC / FAM & Cv3

Applied Biosystems FAM & VIC

Rotor-Gene™ **GREEN & YELLOW**

AMPLIFICATION PROGRAM

• Enter the following program:

STEPS		TIME	TEMPERATURE	CYCLES	FLUORESCENCE ACQUISITION
Hot Start Taq Polymerase Activation		15 min.	95°C	1	-
Amplification	Denaturation	10 sec.	95°C	45	-
Ampilication	Annealing Elongation	40 sec.	60°C	45	530 + 560 nm end of the elongation

Note 1: for LightCycler® instruments, set **SEEK TEMPERATURE** to the temperature corresponding to the fluorescence acquisition.

Note 2: for LightCycler® instruments, add a cooling step: 30 sec. / 40°C / 1 cycle at the end of the PCR.

Note 3: for Applied Biosystems instruments, select NONE in PASSIVE REFERENCE.

Note 4: for Rotor-Gene™, calibrate the signal by clicking on GAIN OPTIMISATION.

• Targeted sequence is located in IS481 region. This reagent detects specifically Bordetella pertussis and other strains of Bordetella containing IS481 region.

AMPLIFICATION PREPARATION

- · Plan number of amplification tubes taking into account:
 - ⇒ number of samples to be amplified;
 - ⇒ positive control (PC11);
 - ⇒ negative / inhibition control (**W0**);
- Distribute 15 µL R11 in all amplification tubes.
- Add 10 µL extracted sample, extracted W0 or PC11.
- Centrifuge for 15 sec.

RESULTS

INTERPRETATION

Conditions for test validation:

- Negative Control: NO SIGNAL.
- IC2W0 (560 nm): CT ≤ 32 CYCLES.
- PC11 (530 nm): 25 ≤ CT ≤ 33 CYCLES.

Sample result interpretation

	EXTRACTION and	CT [IC2sample] ≤ CT [IC2W0] + 3 cycles		CT [IC2sample] > CT [IC2W0] + 3 cycles	
	CONTROL	NON INHIBITED and correctly extracted sample		INHIBITED or badly extracted sample	
	SAMPLE	Calculated CT	Non calculated CT	Calculated CT	Non calculated CT
	BORDETELLA detection	Sample validated as positive	Sample validated as negative	Sample validated as positive	NOT VALID

This outlined procedure does not replace the original protocol.







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