


## PCR-Based Diagnosis of Bordetella pertussis

**August 2017:** Rochester Regional Health Laboratories now offers an in-house solution for the PCR-based diagnosis of *Bordetella pertussis*. In addition, the assay also detects *B. holmesii* and *B. parapertussis/bronchiseptica*, which are other species of *Bordetella* that may cause overlapping clinical symptoms to *B. pertussis*.

The assay is performed on the Nanosphere Verigene, an FDA-cleared multiplex PCR platform. The recommended sample is a nasopharyngeal (NP) swab collected in Universal Transport Media (UTM). Testing is performed daily and the results are reported as Detected/Not Detected for each of the *Bordetella* groups tested.

### Test Information:

<i>Alternate Test Name:</i>	Pertussis
<i>Test Number:</i>	10144
<i>Department:</i>	Microbiology
<b>SPECIMEN COLLECTION REQUIREMENTS</b>	
<i>Collection Container:</i>	UTM (Universal Transport Medium)
	
<i>Specimen:</i>	Nasopharyngeal
<i>Collection Notes:</i>	Collect a nasopharyngeal swab according to accepted collection guidelines and place immediately into UTM (Universal Transport Medium Tube).
<i>Transport Temperature:</i>	Refrigerated
<i>Specimen Volume:</i>	Preferred Volume: Nasopharyngeal Swab in UTM
<i>Also Acceptable:</i>	NA
<b>TECHNICAL SPECIFICATIONS</b>	
<i>Performed:</i>	Monday-Friday
<i>Reported:</i>	Same Day
<i>Methodology:</i>	Verigene® Respiratory Pathogens Flex Nucleic Acid Test, Reverse Transcription (RT), Polymerase Chain Reaction (PCR).
<i>CPT:</i>	87798 (X3)
<i>LOINC:</i>	23826-1, 29723-4, 45294-6, 62427-0
<i>Stability:</i>	Room temperature: 4 hours; Refrigerated: 48 hours; Frozen: 30 days
<i>Reference Range:</i>	Not Detected
<i>Notes:</i>	In the event a <i>Bordetella pertussis</i> "Detected" result is obtained, the result for <i>Bordetella parapertussis/bronchiseptica</i> <i>Bordetella</i> is reported as "NA."

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