Procedure: Bordetella PCR Specimen Handling and Storage

Document: MB 6.01 v2 Effective Date: 07.19.2016



Bordetella pertussis / parapertussis PCR Specimen Handling and Storage

PURPOSE

- This procedure provides instructions for specimen acceptability, handling and storage
- Refer to the <u>Laboratory Services</u> web page for test specific patient preparation and specimen collection information.

SAMPLE

A. Acceptable specimens and transport container

Specimen type	Specimen code	Volume	Transport Containers	
1 Nasopharyngeal swab	NP	1 wire NP swab	 NP CultureSwab™ Rayon wire mini-tip swab in Liquid Stuart's, green top NP CultureSwab™ Rayon wire mini-tip swab in Amies Charcoal, green top 	
Nasal aspirate	NASP			
Nasal washing	NW			
Bronchoscopy	BR			
Bronchial Alveolar Lavage	BAL	1 – 2 mL (0.5 ml minimum)	Sterile, plastic leak proof container	
Bronchial Aspirate	BASP			
Bronchial Wash	BRW			

- B. Unacceptable specimens: Calcium alginate swabs, nose swabs, sputum, throat swabs
- C. Transport and Storage: For additional information refer to Laboratory Services web page

Temperature	Sample Stability
Room temperature	
Bronch specimens	4 hours
NP swabs	■ 5 days
Nasal wash	■ 5 days
Refrigerated , 2 - 8° C	■ 5 days

SAFETY CONSIDERATIONS

- Standard precautions. Refer to MB 2.02 Biohazard Containment
- Use of engineering controls: Refer to MB 3.01 Engineering Controls to Prevent Nucleic Acid Contamination

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MATERIALS REQUIRED

Equipment	Media	Supplies
Refrigerator, 2 - 8° C	BBL CultureSwab™ Liquid Stuart's	Nitrile gloves
Storage bin	BBL CultureSwab™ Amies Charcoal	2.0 ml cryovials
	Sterile , plastic leak proof container	

PROCEDURE A: Follow the activity below for sample handling

Activity	Step	Action	Related Doc	
ID	1	Verify that the patient identification on the primary container corresponds to the accompanying order	MB 1.01 Specimen Management	
Location: Microbiology	2	Receive sample in Sunquest and generate label Sunquest location: MC Sunquest code: BORDP	Organizational policy 630.00 Laboratory Specimen Labeling	
	3	Confirm the name on the label is the same as the name on primary container		
	4	Affix LIS accession label to corresponding primary container		
Quality	4	Evaluate the quality of the specimen. MB 1.02 S Rejection		
Store	5	Store specimen refrigerated at 2 - 8° C		
	6	Place specimen and label in molecular designated area		

PROCEDURE B: Follow the activity below for aliquoting samples and preventing cross-contamination **Sample Aliquots**

Activity	Step	Action			
Identification of secondary container	1	Sample specim	Organizational		
	2	Confirm the name and accession number on the aliquot label is the same as on the primary container			
	3	Affix LIS	Labeling		
Avoiding cross-contamination		Handle specimens to avoid cross contamination of primary sample and aliquots as follows: Step Action			
	4	a	Deliver primary specimens unopened to the molecular laboratory when possible or perform the following steps	Refer to assay	
	4	b	Properly label secondary container with patient aliquot label	procedures for additional information	
		С	Verify name on primary and secondary container before transfer		
		d	Use sterile pipettes and technique when transferring samples		
		е	Aliquot one specimen at a time with only one tube open at a time		
		f			

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REFERENCES

- 1. B. pertussis/parapertussis Clinical Verification and Validation Study performed at Children's Hospitals and Clinics of MN 2015
- 2. Andrea J. Linscott, Section editor, *Specimen Collection, Transport, and Acceptability,* 2.1. In Lynne S. Garcia (ed) *Clinical Microbiology Procedures Handbook,* Third edition 2010, American Society for Microbiology, Washington, D.C.
- 3. J. Michael Miller, A guide to Specimen Management in Clinical Microbiology, 1999, ASM Press, 1325 Massachusetts Ave NW, Washington, DC

Historical Record

Version	Written/Revised by:	Effective Date:	Summary of Revisions
1	P. Ackerman	1.23.16	Initial Version
2	P. Ackerman	07.19.16	Reformatted for CMS upload