Louisiana Office of Public Health Laboratories		
Test Name	Rule out Francisella tularensis	
PHL Location	Office of Public Health Laboratory Baton Rouge	
CPT Code	N/A	
Synonyms	BT Test, Bioterrorism Test, Clinical Rule Out	
Brief Description of Test	 Prior notification requested. Contact Infectious Disease Epidemiology at 800-256-2748 or BT Program Advisor at 225-219-5241. To rule out or confirm bacterial isolates as <i>Francisella tularensis</i> or to rule out or confirm presence/absence of <i>Francisella tularensis</i> in direct patient specimens. <i>F. tularnesis</i> is suspected and cannot be ruled out if the isolate fulfills the following characteristics: Faintly staining Gram-negative coccobacillus No growth on MAC, scant to no growth on BAP after >48 hours. Produces 1-2mm gray to grayish-white colonies on CHOC after >48hours. Colonies fail to exhibit enhanced growth (satellite) around <i>S. aureus</i>, indicating no requirement for X and V factors. Oxidase negative, catalase weakly positive or negative and β-lactamase positive 	
Possible Results	Direct Sample Testing Presumptive Positive Inconclusive Negative Culture Isolate Testing Positive Negative	
Reference Range	Negative	
Specimen Type	Direct Sample – clinical specimens require prior approval	

	A. Collection and	Transport of Clinical Specimens for Laboratory Rule-Out Testing			
	Tissue	For small tissue samples, add several drops of sterile normal saline			
		into a sterile container to keep the tissue moist			
	Biopsy, scraping of an	 Transport at room temperature for immediate processing 			
	ulcer, or conjunctival	If processing of specimen is delayed beyond 2 hours, keep specimen			
	swab	chilled (2-8°C)			
		Amies transport media is an appropriate transport medium			
	Aspirate	Submit in a sterile container			
	The sector sector sector is a	 Transport at room temperature for immediate processing. 			
	Lymph node or lesion	• If processing of specimen is delayed beyond 2 hours, keep specimen			
		chilled (2-8°C)			
	Bone Marrow	 Submit in a sterile container 			
		 Transport at room temperature for immediate processing 			
		• If processing of specimen is delayed beyond 2 hours, keep specimen			
		chilled (2-8°C)			
	Blood	 Transport inoculated bottles directly to laboratory at room 			
		temperature			
		Hold at room temperature until placed into automated, continuous			
		monitoring blood culture incubators			
	Deceleration C 11	Do not refrigerate			
	Respiratory Secretions	Submit in a sterile container			
		Transport at room temperature for immediate processing If processing of programs is delayed beyond 2 hours been engineer			
		 If processing of specimen is delayed beyond 2 hours, keep specimen chilled (2-8°C) 			
	Serum	Collect at least 1 ml without anticoagulant for serologic diagnosis			
		• Store at 4°C until testing is performed.			
		 Acute specimen is collected as soon as possible after onset of disease 			
		 Convalescent-phase should be collected >14 days after the acute 			
		specimen.			
	DO NOT REFRIGERATE BLOOD SPECIMENS				
	Culture Isolate				
	Actively growing, pu	re culture inoculated in/on unexpired media			
		re culture inoculated in/on unexpired media			
Specimen	Specimen must be tra	ansported in "triple" packaging (primary receptacle, water			
~	Specimen must be tra tight secondary pack	ansported in "triple" packaging (primary receptacle, water aging and durable outer packaging) required for a			
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	submitter's name, address, fax and contact number. Additional information regarding patients' address is requested.
	The same two unique identifiers MUST be recorded on the tube AND the Lab 93 form.
	Transport specimen to laboratory as soon as possible after collection/incubation. Keep submission forms insulated from specimens. Culture may be shipped ambient. For storage and transport of clinical samples,
	contact BT Program Advisor at 225-219-5241.
Storage and Transport Instructions	Send sample to the Office of Public Health Laboratory Baton Rouge, 1209 Leesville Avenue, Baton Rouge, LA 70802
	LRN (Laboratory Response Network) guidance for the packaging and shipping of infectious substances and biological agents should be consulted for recent changes. IATA and DOT publications continue to be revised frequently. Submitters should frequently and regularly consult IATA publications, the Federal Register, and the publications of other governing agencies for more complete instructions. It is the shipper's responsibility to ensure adherence to the most current regulations.
	Useful web sites that address the shipping of infectious substances and biological agents: International Air Transport Association: <u>https://www.iata.org</u> Department of Transportation: <u>http://phmsa.dot.gov</u> American Society for Microbiology: <u>http://www.asm.org</u> American Biological Safety Association: <u>http://www.absa.org/</u> Animal and Plant Health Inspection Service: <u>http://www.aphis.usda.gov/</u> Centers for Disease Control and Prevention: <u>http://www.cdc.gov/od/ohs/</u>
Causes for Rejection	 Incorrect source Incorrect labeling Expired collection tubes Not approved for testing by Infectious Disease Epidemiology
Limitations of the Procedure	If inhibitors are present in a DNA extraction, PCR assays may produce a false negative result.
	A false negative result may occur if a sample is improperly collected, transported or handled. False negative results may occur if inadequate numbers of organisms are present in the sample.
Interfering Substances	N/A for direct culture testing
References	Sentinel Level Clinical Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Yersinia pestis</i> . <u>https://www.asm.org/images/PSAB/LRN/Tularemia316.pdf</u>
	Laboratory Response Network

Additional Information	If <i>Francisella tularensis</i> is suspected, contact Infectious Disease I at 1-800-256-2748 or BT Program Advisor at 225-219-5241.	Epidemiology		
Release Date	05/18/2018			
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