

Quick Guide for Culture Dependent Methods

Nebraska Reportable Diseases Title 173 Laboratory Regulations

Immediate Notification:

Douglas Co. (402)444-7214 (after hrs 402-444-7000)
 Lancaster Co (402)441-8053 (after hrs 402-441-8000)
 All Other Counties (402)471-2937 (after hours 402-471-1983)
 Nebraska Public Health Laboratory 24/7 pager (402) 888-5588 (for possible select agents and specimen collection/shipping questions)

Updated 1/1/2022 Ship isolates listed below to NPHL	Call Immediately?	What to send?	How to ship?	What to order on NPHL form?	What to order in NU/irt?
<i>Bacillus anthracis</i> * (probable, unable to rule out by LRN protocol)	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
<i>Bordetella pertussis</i>		Charcoal Agar-isolate	Category B	Rpt Confirmed/Bank only	BP/ERT or BPD
<i>Brucella abortus</i> , <i>B. melitensis</i> , and <i>B. suis</i> * (probable, unable to rule out by LRN protocol)	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
<i>Burkholderia (Pseudomonas) pseudomallei</i> * (probable, unable to rule out by LRN protocol)	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
<i>Candida auris</i> , unusual <i>Candida</i> strains possibly misidentified**		Original culture plate	Category B	ORGCU - Confirmation ID from isolate	ORGCU, NPHLBK
Carbapenem-Resistant Enterobacteriales (suspected or confirmed)		Isolate	Category B	Antibiotic Resistance to Confirm	CARBAR, NPHLBK, WGS
<i>E. coli</i> O157-H7 and other Shigatoxin-positive <i>E. coli</i>		MacSorb or Isolate	Category A	Rpt Confirmed/Bank only	NPHLBK,WGS
<i>Francisella tularensis</i> * (probable, unable to rule out by LRN protocol)	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
Glanders [<i>Burkholderia (Pseudomonas) mallei</i>]* (probable, unable to rule out by LRN protocol)	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
<i>Haemophilus influenzae</i> (sterile site only)	YES	Isolate	Category B	Serogroup or Serotype isolate	NPHLBK
<i>Listeria monocytogenes</i>	YES	Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK, WGS
<i>Neisseria meningitidis</i> , sterile sites only	YES	Isolate	Category B	Serogroup or Serotype isolate	BNK
<i>Mycobacterium spp.</i> , invasive infection (including possible <i>M. tuberculosis</i> complex).		LJ Slant, TB MGIT, Processed Sediment	Category A	Mycobacteriology/TB	AFBCU, AFBIS, TBAPR, TBGEN, AFBIS
<i>Mycobacterium spp.</i> , invasive infection (including possible atypical <i>Mycobacterium spp.</i> or slow growing MAI group).		LJ Slant, TB MGIT, Processed Sediment	Category A	Mycobacteriology/TB	AFBCU, AFBIS, TBAPR, TBGEN, AFBIS
<i>Salmonella serogroups</i> ; Send ALL isolates to NPHL. Isolates requesting serogrouping should be sent to a reference lab.		Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK, WGS
<i>Salmonella typhi</i>	YES Call only S.Typhi	Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK, WGS
Shiga toxin positive <i>E. coli</i>		Maintenance Media	Category B	Stool positive by EIA	HECCU
<i>Shigella spp</i> *** (Send isolates requiring serogrouping to your reference lab. Forward all species except <i>S. sonnei</i> to NPHL. Species of <i>S. sonnei</i> that are highly drug resistant should be sent to the NPHL.)		Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK
<i>Shigella dysenteriae</i>	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
<i>Staphylococcus aureus</i> , vancomycin-intermediate/resistant (MIC>=4mg/mL)		Isolate	Category B	Antibiotic Resistance to Confirm	ORGCU, NPHLBK
<i>Streptococcus pneumoniae</i> (all sterile sites)		Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK
<i>Vibrio cholera</i>	YES	Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK, WGS
<i>Vibrio spp.</i> , not <i>V. cholera</i>		Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK, WGS
<i>Yersinia pestis</i> * (probable, unable to rule out by LRN protocol)	YES	Original culture plate, taped	Category A	BTID - Report on STATPack	BTID
<i>Yersinia spp.</i> , not <i>Y. pestis</i>		Isolate	Category B	Rpt Confirmed/Bank only	NPHLBK

* Designated as potential select agents by CDC

** Resistance to imipenem, doripenem, ertapenem or meropenem as defined by the CDC. Carbapenem-resistant Enterobacteriales (CRE) (excluding *Proteus* species, *Providencia* species, or *Morganella morganii*) are reportable to the Nebraska Department of Health and Human Services via electronic lab report, phone or fax within 24 hours.

Additionally, laboratories unable to perform phenotypic or molecular testing to confirm carbapenemase production in these organisms should send suspected CRE isolates that meet the criteria below to NPHL. Labs that are able to do such testing should only send isolates positive for carbapenemases to NPHL. Ship as Category B, Biological Substance UN3373. Guidelines for submission are below:

- Submission of all isolates of Enterobacteriales that are resistant to any of the carbapenems. Exceptions are Enterobacter cloacae and k. aerogenes: only submit isolates that are resistant to carbapenems other than ertapenem. Do not submit Enterobacteriales with known intrinsic resistance to carbapenems, i.e. *Proteus* species, *Providencia* species, and *Morganella morganii*.
- Submission of all isolates of in-house or reference laboratory confirmed carbapenemase-producing Enterobacteriales.

***Susceptibilities on *Campylobacter* and *Shigella spp* are recommended in-house or by commercial reference laboratory. Send isolates to NPHL only when specially requested.

Immediate Notification for automated ELR Labs - Required to call by telephone to a live public health surveillance official within 24 hours of detection

* Laboratories must submit the isolate and/or specimen within 7 days to the Nebraska Public Health Lab as specified in Title 173 NAC 1-007.03

Category B - NPHL UN3373 Shipping Box

Category A - NPHL UN2814 Shipping Box. Shipper required to be certified by DOT every 2 years

Note: Sentinel laboratories should isolate all reportable diseases on culture agar or slant, if possible. If unable to recover, send original specimen (using maintenance media if appropriate) to NPHL.

Candida auris - unusual *Candida* strains possibly misidentified - The table below summarizes common misidentifications based on identification method used. If any of the species listed below are identified, or if species identity cannot be determined.

Identification Method	Organism <i>C. auris</i> can be misidentified as:
Vitek 2 YST	<i>Candida haemulonii</i>
	<i>Candida duobushaemulonii</i>
API 20C	<i>Rhodotorula glutinis</i> (characteristic red color not present)
	<i>Candida sake</i>
BD Phoenix yeast identification system	<i>Candida haemulonii</i>
	<i>Candida catenulata</i>
MicroScan	<i>Candida famata</i>
	<i>Candida guilliermondii</i>
	<i>Candida lusitanae</i>
	<i>Candida parapsilosis</i>
Rapid Yeast Plus	<i>Candida parapsilosis</i>