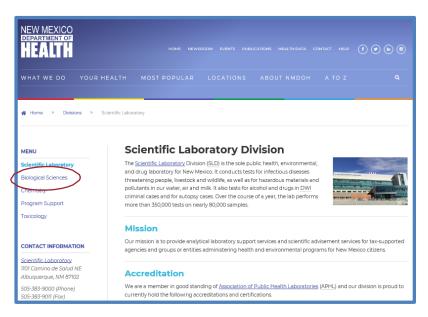
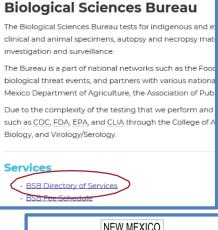


### Our Website: nmhealth.org/about/sld/



### **Our Directory of Services (DOS):**

http://nmhealth.org/publication/view/general/1496/





## **Contact Information:**

TITLE	PHONE/FAX	COMMENTS
BSB Chief	505-383-9122	General inquiries
SLD QA Director	505-383-9005	Quality issues
SLD Front Desk	505-383-9000, 505-383-9150	General inquiries and if uncertain whom to call
Epidemiology and Response Division (ERD)	505-827-0006	Emergency reporting of diseases
BSB Fax	505-383-9121	
SLD Fax	505-383-9011	
Specimen Receiving Phone	505-383-9068 505-383-9066	Courier service
Kit Prep Phone	505-383-9073	Request forms and kits
Kit Prep Fax	505-383-9062	Request forms and kits

## **Contact Information:**

TITLE	PHONE/FAX	COMMENTS
GM Supervisor	505-383-9128	Bacteriology, mycobacteriology, and mycology testing
GM Line Supervisor	505-383-9127	Bacteriology testing
TB/Mycology Line Supervisor	505-383-9126	Mycobacteriology and mycology testing
VS Supervisor	505-383-9124	Virology or serology testing
VS Line Supervisor	505-383-9125	Virology or serology testing
MB Supervisor	505-383-9130	Molecular testing
MB Line Supervisor	505-383-9160	Molecular testing
EM Supervisor	505-383-9129	Food, water, and dairy testing
EM Line Supervisor	505-383-9104	Food, water, and dairy testing

#### What is a submitter code?

• Submitter codes are used to determine who the final report is sent to for the requested test. The submitter code is correlated to the submitter name, address, and phone number to ensure the report is sent to the intended recipient.

#### What is a user code?

• User codes determine who is fiscally responsible for the test requested.

#### What is an EIP isolate?

• The Emerging Infections Program (EIP) is a collaboration with the CDC to collect isolates that might represent epidemiological patterns from pathogens that cause invasive infections, such as *Streptococcus pneumoniae*, and Group A & B Streptococcus.

#### What is the specimen source?

- The specimen source identifies the anatomic site from where the specimen originated.
- Examples include blood, BAL, pleural biopsy, NP swab, etc.
- This is critical information to ensure that the specimen submitted is appropriate for the testing requested.

#### What is a patient identifier?

- One of the most important aspects of submitting a specimen is having at least two forms of identification on both the specimen and the Clinical Test Request Form. The patient must be identified and distinguishable from other patients.
- The patient's name, date of birth, and/or the medical record number are considered identifiers.
- The identifiers on the specimen label <u>MUST</u> match those on the Clinical Test Request Form.

#### **Basic Principles:**

- Use the SLD Directory of Services (DOS) to obtain information on tests offered, specimen type, collection, handling, transportation, rejection criteria, and special requirements. http://nmhealth.org/publication/view/general/1496/
- If possible, collect the specimen in the acute phase of the infection and before antibiotics are administered.
- Select the correct anatomic site for collection of the specimen.
- Collect the specimen using the proper technique and supplies with minimal contamination of normal biota.
- Collect the appropriate quantity of specimen.
- Package the specimen in a container or transport medium designed to maintain the viability of the organism and avoid hazards that result from leakage.
- Label the specimen accurately with the date and time of collection, specific anatomic site (if necessary), and the patient information name and a unique identification number.
- Transport specimen promptly or make provisions to store in an environment that does not degrade suspected organism(s).
- Notify the laboratory in advance if unusual pathogen or agents of bioterrorism are suspected.

## Two Forms of Patient Identifiers on Specimen



## **Examples:**

- Patient name; first and last name count as ONE identifier
- Date of birth
- Patient ID / Hospital number/ Medical Record Number
- Social Security Number
- Requisition number
- Accession number
- Unique random number

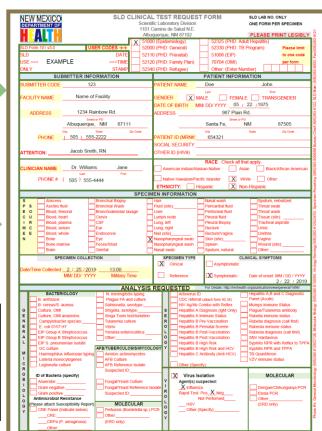
#### Updated SLD Clinical Test Request Forms can be printed from our website:

https://nmhealth.org/about/sld/bib/

Submitter information & Clinician name/phone

Specimen information: Source and date/time of collection

All yellow
highlighted sections
are required and
must be completed
prior to submission





Patient
information:
Must have at
least 2
individual
identifiers.
Patient gender
is required
(select one
option).



Analysis (Test) requested

## Please remember to

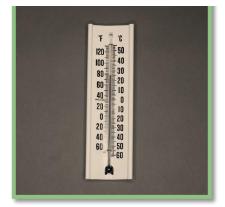
- Submit a clinical test request form for each sample
- Submit only 1 specimen per form
- Complete all yellow highlighted sections

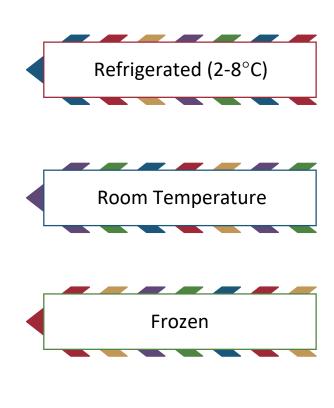
NOTE: Missing or inaccurate information on the test request form and/or sample will cause a delay in testing and result reporting.

**Delayed Testing = Delayed Patient Care** 

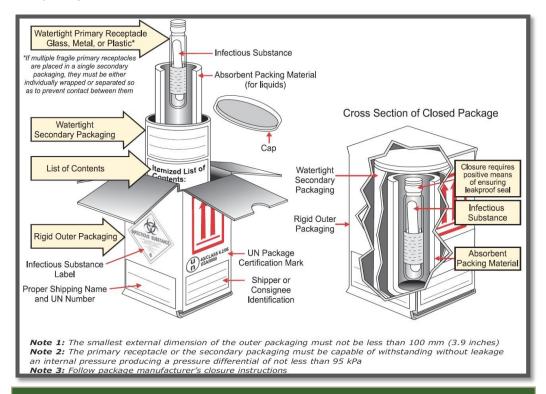
Each specimen is to be maintained and shipped at a specific temperature which is dependent on the type of specimen requirements.

These requirements can be found in the SLD BSB Directory of Service (DOS)





#### **Category A**



Documented training and certification required to ship Category A

#### Microorganisms

Bacillus anthracis (cultures only)

Brucella abortus (cultures only)

Brucella melitensis (cultures only)

Brucella suis (cultures only)

Burkholderia mallei (cultures only)

Chlamydia psittaci – avian strains (cultures only)

Clostridium botulinum (cultures only)

Coccidiodes immitis (cultures only)

Coxiella burnetti (cultures only)

Crimean-Congo hemorrhagic fever

Dengue virus (cultures only)

Eastern Equine encephalitis virus (cultures only)

Escherichia coli, verotoxigenic (cultures only)

Ebola virus

Flexal virus

Francisella tularensis (cultures only)

Guanarito virus

Hantaan virus

Hantavirus causing hemorrhagic fever with renal syndrome

Hendra virus

Hepatitis B virus (cultures only)

Herpes B virus (cultures only)

Human immunodeficiency virus (cultures only)

Highly pathogenic avian influenza virus

Junin virus

Kyasanur Forest disease virus Lassa virus

## Examples of Category A agents

#### Microorganisms

Machupo virus

Marburg virus
Monkeypox virus

Mycobacterium tuberculosis (cultures only)

Nipah virus

Omsk hemorrhagic fever virus

Poliovirus (cultures only)

Rabies virus (cultures only)

Rickettsia prowazekii (cultures only)

Rickettsia rickettsii (cultures only)

Rift valley fever virus (cultures only)

Russian spring-summer encephalitis virus (cultures only)

Sabia virus

Shigella dysenteriae type 1 (cultures only)

Tick-borne encephalitis virus (cultures only)

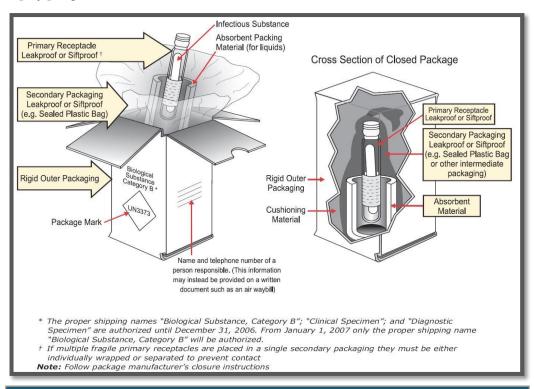
Variola virus

Venezuelan equine encephalitis virus (cultures only)

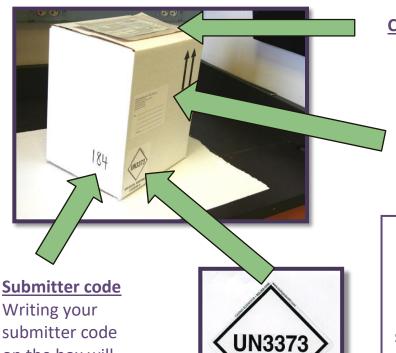
West Nile virus (cultures only)
Yellow fever virus (cultures only)

Yersinia pestis (cultures only)

#### **Category B**



#### Documentation of training recommended



BIOLOGICAL SUBSTANCE CATEGORY B

#### **Courier form**

#### To and from address Label

If using DMC as the courier this information can be included on the DMC courier form.

## DOT Required Labeling Information:

First **and** last name of individual preparing the shipment/emergency contact

Emergency contact phone number

**UN3373 Labeling** 

shipping box.

on the box will

ensure return of

#### Shipping with Dry Ice

When shipping with dry ice, the UN1845 label is required per DOT



Affix new no-line label

Ensure box or label says DRY ICE and UN1845

Write quantity of dry ice used

Maximum quantity = 2.5 kg

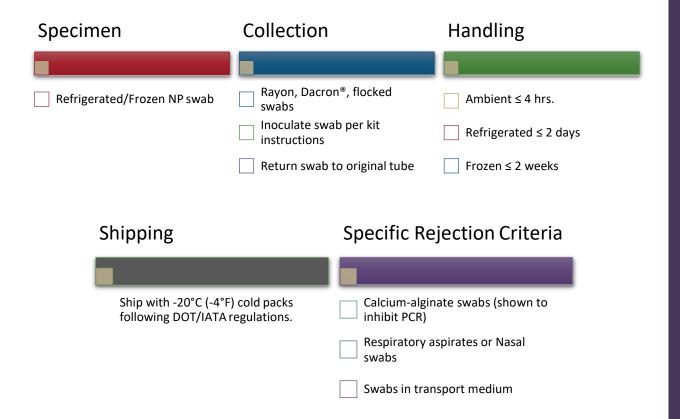
#### Compromised Specimen

- Leaking container
- Broken container
- Incorrect shipping temperature
- Errors with specimen
- Incorrect holding time
- Incorrect volume

#### Improperly labeled specimen

- No identifier
- Only one identifier
- Specimen identifier does not match form

## SPECIFIC REJECTION CRITERIA CAN BE LOCATED UNDER EACH TEST IN THE DIRECTORY OF SERVICES



#### Specimen

- NP, nasal, or throat swab
- Nasal aspirate
- Nasal wash
- Dual NP/throat swab
- BAL Culture only, NOT RT-PCR
- Bronchial wash
- Tracheal aspirate
- Sputum
- Lung tissue
- For Collection info see Directory of Services

#### Handling

- Delivery to lab  $\leq$  72 hrs. = 2-8°C (35 46°F)
- Delivery > 72 hrs. =  $-70^{\circ}$ C ( $-94^{\circ}$ F) or on dry ice
- Do not freeze at -20°C (-4°F), such as in a household type freezer.

#### **SLD Virus Isolation Kit**



**Clinical Request Form** 

Specimen bag with outer sleeve

Viral transport medium

2 swabs

Gauze pad



Break off the plastic shaft so swab fits within tube. Cap tightly, seal with parafilm, and refrigerate.



Place the sealed specimen with the absorbent material into a zip-lock biohazard bag.

Only 1 specimen per bag.



Place form in outer sleeve of bag to separate it from specimen, in case of leakage.



Place the bagged specimen in shipping container on ice packs to keep specimen cold until arrival at SLD. If >72 hrs., ship on enough dry ice to keepfrozen.

#### Specific Rejection Criteria

- Specimens older than 72 hrs. and not frozen
- Calcium Alginate swab for RT-PCR
- Cotton swabs and/or swabs with wooden shafts for RT-PCR & Virus Isolation

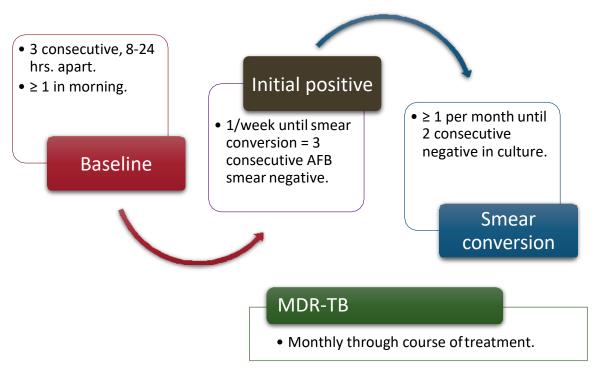
#### **Special Requirements**

- Place specimen in viral transport medium.
- Do not freeze at -20°C (-4°F), such as in a household type freezer.
- Patient ID number <u>must</u> be provided on the clinical test request form.

#### **Specimen Types Accepted by SLD**

• Instruct patient on importance of good quality sputum. Sputum • 3-10 ml of sample in a 50 ml tube supplied by SLD kit prep. • Neutralize specimen before sending. Gastric Lavage • Notify SLD before collection. Stool/Feces • Notify SLD before sending. • 3-5 daily, consecutive collections of first morning Urine urine. Each sample should be ≥ 24 hrs. apart. • Avoid pooled, midstream, or 24 hr. collections. Tissue • Collect aseptically and submit in 5 ml sterile saline. CSF/other • Collect aseptically in sterile screw cap tube. sterile body • Submit 5-50 ml to increase chance of detection. fluids DO NOT SEND BLOOD.

#### **Sputum Collection Schedule**



#### Collection

- See Directory of Services for additional information.
- For questions about sputum collection contact the TB Control Program helpline at (505) 827-2471.

#### Handling

• Refrigerate samples after collection.

#### Shipping

- Ship samples as they are collected. DO NOT BATCH.
- Send cold on ice pack. DO NOT FREEZE.

#### Specific Rejection Criteria

- Broken or leaking tubes
- Specimen in preservative (formalin)
- Inadequate specimen volume
- Received on a swab, in a swab transport device, in gauze, paper towel etc.
- Sputum specimens collected < 8 hrs. apart, urine collected < 24 hrs. apart, specimens > 7 days old upon receipt
- Improper temperature
- Evidence of improper handling

#### **Special Requirements**

- Use sterile 50 ml centrifuge tubes supplied in the collection kit.
- NO collection cups
- Legible, completed clinical test requestform

#### Description

- New Mexico Emerging Infections Program (EIP) bacterial isolates requested for Epidemiological Investigation as part of a CDC collaborative study.
- The EIP user code and the test requested are independent of one another.

#### Specimen

- Isolates of *Streptococcus pneumoniae*, Group B Streptococcus, or Group A Streptococcus isolated from sterile sites including blood, CSF, pleural fluid, peritoneal fluid, joint, bone, muscle, and internal body sites.
- Send on appropriate media.
- If specimen is not from sterile site, mark Gram negative or positive ID.

#### Shipping

• Cold, on ice pack, or room temperature. DO NOT FREEZE.

#### **Special Requirements**

• On Clinical Test Request Form: Select "EIP Group A Streptococcus", "EIP Group B Streptococcus", or "EIP S. pneumoniae isolate"

#### Description

- Carbapenem Resistant Enterobacteriaceae (CRE), Carbapenem Resistant Pseudomonas aeruginosa (CRPa) and/or Carbapenemase producing bacteria
- Contact GM Supervisor 383-9128 or GM Line Supervisor 383-9127

#### Specimen

- Send isolate on culture medium nutrient agar slants or MAC agar plates.
- Carbapenemase producing *Enterobacteriaceae* plasmids are not stable. Keep isolate refrigerated until shipment.
- Avoid multiple passes / sub-culture.

#### Shipping

• Cold, on ice pack. DO NOT FREEZE

#### **Special Requirements**

- Include a copy of the susceptibility report and the SLD Clinical Test Request Form.
- Test Request Form: Under General Microbiology select "CRE Panel" and indicate the organism genus and species.

### CRE, CRPa, Carbapenemase Producing Bacteria Inclusion Criteria

Please submit isolates with an SLD Clinical Test Request form and a copy of your susceptibility results for:

Any Enterobacteriaceae where the

- MIC is ≥ 4µg/mL for Meropenem, Imipenem, or Doripenem; or
   ≥ 2µg/mL Ertapenem
- Disk diffusion zone ≤ 19 mm for Meropenem, Imipenem or Doripenem; or ≤ 18mm Ertapenem

Any Pseudomonas aeruginosa where the

- MIC is ≥ 8µg/mL for Meropenem, Imipenem, or Doripenem
- Disk diffusion zone ≤ 15mm for Meropenem, Imipenem or Doripenem

Any Pseudomonas aeruginosa or Enterobacteriaceae that demonstrates carbapenemase production by:

- Positive PCR (KPC, NDM, VIM, IMP, OXA-48)
- Other method (such as Carba NP, mCIM, Modified Hodge test)

#### Description

- Sin Nombre Virus (SNV) IgM used to detect IgM antibodies to SNV and to diagnose acute infections with hantaviruses.
- Testing must be approved by the Epidemiology and Response Division 505-827-0006
- Test Request Form: Under the Serology section select "SNV Hantavirus"

#### Specimen

- Serum centrifuge and aliquot the serum into a separate container
- Refrigerate after serum is separated

#### Shipping

- Ship on cold packs if specimen arrives within 5 days
- Freeze at ≤-20°C and ship on dry ice if greater than 5 days

#### Specific Rejection Criteria

- Specimens older than 5 days and not frozen
- Serum specimens not separated from the clot

#### Notifiable conditions in New Mexico

- The list is located at http://nmhealth.org/publication/view/regulation/372/
- Examples include anthrax, plague, listeria, salmonella, etc.
- ERD must be notified either immediately or routinely at 505-827-0006
- Suspect or confirmed cases of Tuberculosis or Nontuberculosis mycobacteria must be reported to the Tuberculosis Program at 505-827-2473
- Certain isolates/clinical specimens need to be submitted to SLD. See link above for a complete list.

Nationa Labs

Reference Labs

Sentinel Labs



# Laboratory Response Network RULE OUT / REFER Program

Organisms that cannot be ruled out as an agent of bioterrorism must be sent to the Scientific Laboratory Division for confirmatory testing.

Contact a General Microbiology supervisor at 505-383-9128, or -9127 during business hours, or after hours at

505-228-4480.

For training, contact SLD's Bioterrorism Readiness Coordinator at 505-383-9006.

#### Specimens

#### Clinical Request Form

#### Packaging and Shipping

Correct media/collection container for specimen	Check appropriate User Code	Store at required temperature until DMC pick up	
Labeled with two identifiers that correspond with the SLD Clinical Test Request Form	Write in your Submitter Code, Submitter name, address, and phone number	Call DMC Courier for next day pick-up (1-800-825-7274)	
Lids are tightly sealed	Clinician Name	Place specimen/s in Styrofoam cooler with appropriate shipping	
Stored at the appropriate conditions	Write in patient name, gender, complete date of birth, and patient ID (MRN#)	requirement, i.e. cold pack, dry ice, or room temperature	
	Check the appropriate Specimen Source box	Place cooler in cardboard box with correct labeling (UN3373 Biological Substance Category B,	
	Enter date & time of collection (military time)	and dry ice sticker if used)	
	Select the analysis requested	Fill out Packing List	
	Place Clinical Test Request Form in OUTER sleeve of biohazard bag	Fill out DMC Courier Form	
	in out En siceve of sionazara sug	Write return address,	
	Any questions contact SLD	submitter code, emergency	
		contact name and phone	
33		number on box	