

What Test Do I Order

Andrew Mercer: Laboratory Scientist 4

John Barry: Laboratory Scientist 3

Patrick Dotson: Molecular Microbiology Supervisor

June 12, 2025

2025 Infectious Disease and Immunization Summit



General Guidelines

Preparation

- Risk Factor Assessment “Opt Out Screening”
- Submission Form for Each Sample
 - Prefill Sections of Electronic PDF
- Identifiers for Each Sample Tube

Serum

- Invert: 5 Times
- Clot: 30mins
- Centrifuge: Within 2hrs (3,100rpm or 1,300RCF)
- Storage: 2-8 C

$$\text{rpm} = \sqrt{\frac{\text{RCF} \times 10^5}{1.12 \times r}}$$

Urine/Genital

- No Collection Under 14yrs Old
- Check For Defects
- Collection
- Transfer
- Label (Throat, Rectal, Vaginal)

Blood Serum Tests (Hepatitis)

Hepatitis A

- Testing Method IgG Antibody (Ab)
- Requires Program Pre-approval
- Outbreak Testing of Active Cases

Hepatitis B

- Testing Method Tri-Panel Antigen (Ag)/Ab Screen
 - sAg Confirmation and IgM Reflex
- Post Vaccination
 - Charged if Done Individually

Hepatitis C

- Testing method Ab screen
 - Viral Quant Reflex
- Post treatment Viral Quant Follow Up

HIV

- Testing Method Combo Ag/Ab Screen
 - HIV 1/2 Differentiation Reflex
- Barriers Continue to Prevent OLS's Ability to Offer HIV Viral Quant

Rubella

- Testing Method Ab Screen

Syphilis

- Testing Method is Traditional Algorithm
- RPR, RPR Titer, TP-PA

CT/GC

- Testing Method is Dual-plex NAAT
 - Follow Up Test of Cure for Throat GC
- Preferred Specimen Sources
 - Males is Urine
 - Females is Vaginal Swab
- No Longer Have to Submit Urine/Vaginal Sample with Other Swab Samples

On the Horizon

- Trichomonas v. Testing
 - Ran on Same Sample Submitted for CT/GC
- Viable Specimen Sources
 - Female and Male Urine
 - Female Vaginal Swab

Shipping System

- All Serum Samples
 - Within Five Days of Collection
 - Stored and Shipped Between 2-8 C
- Urine/Swabs
 - Within 30 Days of Collection
 - Stored and Shipped Between 2-30 C

Canisters

- Only Urine/Swabs
- Most Still be Packaged Following Procedure

Training Materials

- Shipping
- SpotSee
- Collection

Contact



Andrew Mercer

Laboratory Scientist 4

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Charleston, WV 25303

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SCAN ME



Office of Laboratory Services: General Microbiology

Overview of Services



The General Microbiology Section can be broken down into the following sections:

- Bacteriology
- ARLN (Antimicrobial Resistance Laboratory Network)
- Enteric Bacteriology
- Parasitology*
- Tuberculosis*
- Pertussis
- Rabies

*Currently, we forward these specimens to partner laboratories for testing.

This section refers to isolated culture specimens that we receive on a variety of media. These include:

- *Streptococcus pneumoniae*
- *Haemophilus influenzae*
- *Neisseria meningitidis*
- *Vibrio* sp.
- *Listeria* sp.
- *Yersinia* sp.
- *Salmonella* sp.
- *Shigella* sp.
- *Campylobacter* sp.
- Shiga toxin-producing *Escherichia coli*
- *Escherichia coli* O157

Here are some examples of Bacteriology specimens we may receive:

- *Streptococcus pneumoniae*, isolated from a blood sample and grown on a blood agar slant
- *Salmonella* sp., isolated from a urine sample and grown on a BHI slant

The media accepted for the Bacteriology section are varied, so please give us a call with any questions.



image from Hardy Diagnostics: <https://hardydiagnostics.com/l36>



image from Hardy Diagnostics: <https://hardydiagnostics.com/l36>

This section refers to raw stool specimens collected and submitted in Cary Blair medium. These include:

- *Vibrio* sp.
- *Listeria* sp.
- *Yersinia* sp.
- *Salmonella* sp.
- *Campylobacter* sp.
- *Shigella* sp.
- Shiga toxin-producing *Escherichia coli*
- *Escherichia coli* O157
- *Cryptosporidium*, *Cyclospora*, *Entamoeba*, and *Giardia* (Outbreak only)
- Norovirus (Outbreak only)

Enteric Bacteriology

- Submit Cary Blair specimens *as soon as possible* to ensure the bacteria is optimally healthy for testing. The longer time has gone between collection and submission, the less viable the specimen.



image from Fisher Scientific: <https://www.fishersci.com/shop/products/cary-blair-indicator-single-vial/R21610>

Enteric Bacteriology: Outbreaks

Outbreaks are investigated by our Epidemiologists. The specimens are assigned an Outbreak Number, which is included on the submission form.

These specimens are tested on our BIOFIRE®, which is a rapid test that includes a panel of organisms. Depending on the results, further workup may be required.

Outbreak specimens include
Norovirus,
Cryptosporidium,
Cyclospora,
Entamoeba, and
Giardia



ARLN (Antimicrobial Resistance Laboratory Network)



ARLN is a newer section in the General Microbiology Unit. We work with hospitals and long-term healthcare facilities around the state to monitor antibiotic resistance. In turn, we communicate the data we receive to our Epidemiologists and the Centers for Disease Control and Prevention (CDC). For more information, you can give us a call, or visit the ARLN webpage at:

<https://www.cdc.gov/antimicrobial-resistance-laboratory-networks>.

Currently, we forward the samples we receive to LabCorp or the CDC for testing. Collection instructions are on our website.

The only exception is if there is an *outbreak* of the four parasites our BIOFIRE® tests for. Again, these come with an assigned outbreak number that is included on the submission forms.

The four parasites include: *Cryptosporidium*, *Cyclospora*, *Entamoeba*, and *Giardia*

NOTE: These outbreak parasite specimens must be stool samples in Cary Blair.

Tuberculosis



Currently, we forward the samples we receive to LabCorp for testing.

At no cost, submitting facilities can submit TB specimens directly to LabCorp by using the WV OLS account number. However, we are able to forward them if submitting facility would rather submit to the OLS first.

We receive two types of TB specimens: Clinical (Raw Sputum) and Reference (Cultured)

NOTE: Raw specimens are collected directly from the patient, and **must** stay refrigerated or on ice packs at all times. Clinical specimens must also be received within **three days** of collection—this includes time to be received by OLS and forwarded to LabCorp. To avoid sample rejection, submitting facilities are able to forward to LabCorp directly at no cost when using the OLS account number. *Contact us directly for the LabCorp account information.

Pertussis can be submitted as an isolate or a nasopharyngeal sample.

- If submitted as an isolate, it must be on **Regan Lowe** medium.
- If the specimen is a raw nasopharyngeal specimen, it must be in **Amies** medium.
- The swab used to collect sample must **not** have a wooden shaft.
- If submitting beyond 24-48 hours of collection, refrigerate the specimen.
- The raw specimen is considered *unsatisfactory* if it is older than seven days after collection.

Vaccine Preventable Diseases

Measles, Mumps, Varicella-zoster

Specimen Requirements:

- Only specimens that have been identified by the Division of Infectious Disease Epidemiology as a suspect case will be accepted for testing.

ASSAY	SPECIMEN TYPE	MINIMUM VOLUME	STORAGE RECOMMENDATIONS
Measles Virus PCR and Genotyping	Nasopharyngeal swab, throat swab, or urine	250 μ L	SWAB -- Store swab in viral transport media at 4°C if shipping within 24 hours. Ship on cold packs. URINE -- Collect 10-50mL of urine in sterile container. Do not add virus transport medium. If shipping is delayed, freeze at -70°C. Ship frozen.
Mumps Virus PCR and Genotyping	Buccal swab, nasopharyngeal swab, or throat swab	250 μ L	Store in 2mL viral transport media at 4°C if shipping within 24 hours. Ship on cold packs. If shipping is delayed, freeze at -70°C. Ship frozen.
Varicella-zoster Virus PCR and Genotyping	Skin lesion swab or scabs	n/a	Dry swab only. Store at ambient temperature.

Vaccine Preventable Diseases



SPECIMEN LABELING:

Specimen containers (vials, tubes, etc.) must be labeled with the patient's name (or other unique identifier) and date of collection. The name on the container must match the name on the test request form exactly.

SPECIMEN PACKAGING AND SHIPPING:

Shipping to OLS vs the Wisconsin State Laboratory of Hygiene

- Shipper must complete the Wisconsin Vaccine Preventable Disease test request form and contact OLS for a laboratory number.
- A copy of the form must be included in the package
- The shipper must also provide OLS with the package tracking number and a copy of the completed test request form.
- Packages must be properly labeled as a UN3373 Biological Substance and shipped per current DOT/IATA regulations.

REPORTS:

All reports will be faxed back to OLS upon completion of testing. OLS will notify DIDE and the submitter of the results once received.

WV Office of Laboratory Services
ATTN: VPD Referral/Micro
167 11th Ave
South Charleston, WV 25303

Wisconsin State Laboratory of Hygiene
ATTN: Communicable Disease Division
2601 Agriculture Drive
Madison, WI 53718-6780

The Rabies section accepts a wide range of mammals for rabies testing. These include the head of moderate-sized animals, the whole body of small animals, and the brains of large animals. ***NOTE: All animals MUST be deceased before submission.***

- Examples of moderate-sized animals include dogs, cats, raccoons, etc. The head must be severed before submission. DO NOT send the whole animal.
- Examples of small animals include rodents, bats, etc. Ensure the animal is deceased before submission. Failure to do so may result in a delay in testing and resulting.
- Examples of large animals include cows, pigs, horses, goats, sheep, etc. The cerebellum and brainstem are required.

(Note: Private citizens should not attempt to remove head or brain of animals. Services of a county health official or veterinarian should be utilized. Reminder that buried animals can not be tested.)

Helpful Hints: Packaging



Pack and ship specimens according to current regulations and via an overnight carrier. Ensure all tubes and containers are appropriately sealed, and in both primary and secondary packaging. This protects from any potential exposures due to leakage or other damage.

Note: Please do **NOT** ship general microbiological samples in boxes provided for Influenza, Tuberculosis, or Diagnostic Immunology specimens.

Helpful Hints: Packaging (RABIES)

Packaging instructions for rabies specimens can be found on the inside of the state-provided shipping kits.



Kit Contents (large or small available)

- 2 Plastic Bags
- 1 Vinyl Zipper Bag
- 2 Ice Packs
- 1 Rabies Test Submission Form
- 1 UN3373 Label
- 1 Return Address label

Helpful Hints: Packaging (RABIES)



The animal head must be double bagged in the provided clear plastic bags. DO NOT leave plastic bags open. Tie them closed.

Multiple animals can be shipped in the same box, but they **MUST** be bagged separately and have a unique identification to match submission form.

Helpful Hints: Packaging (RABIES)



Place the double bagged specimen into the vinyl zipper bag.

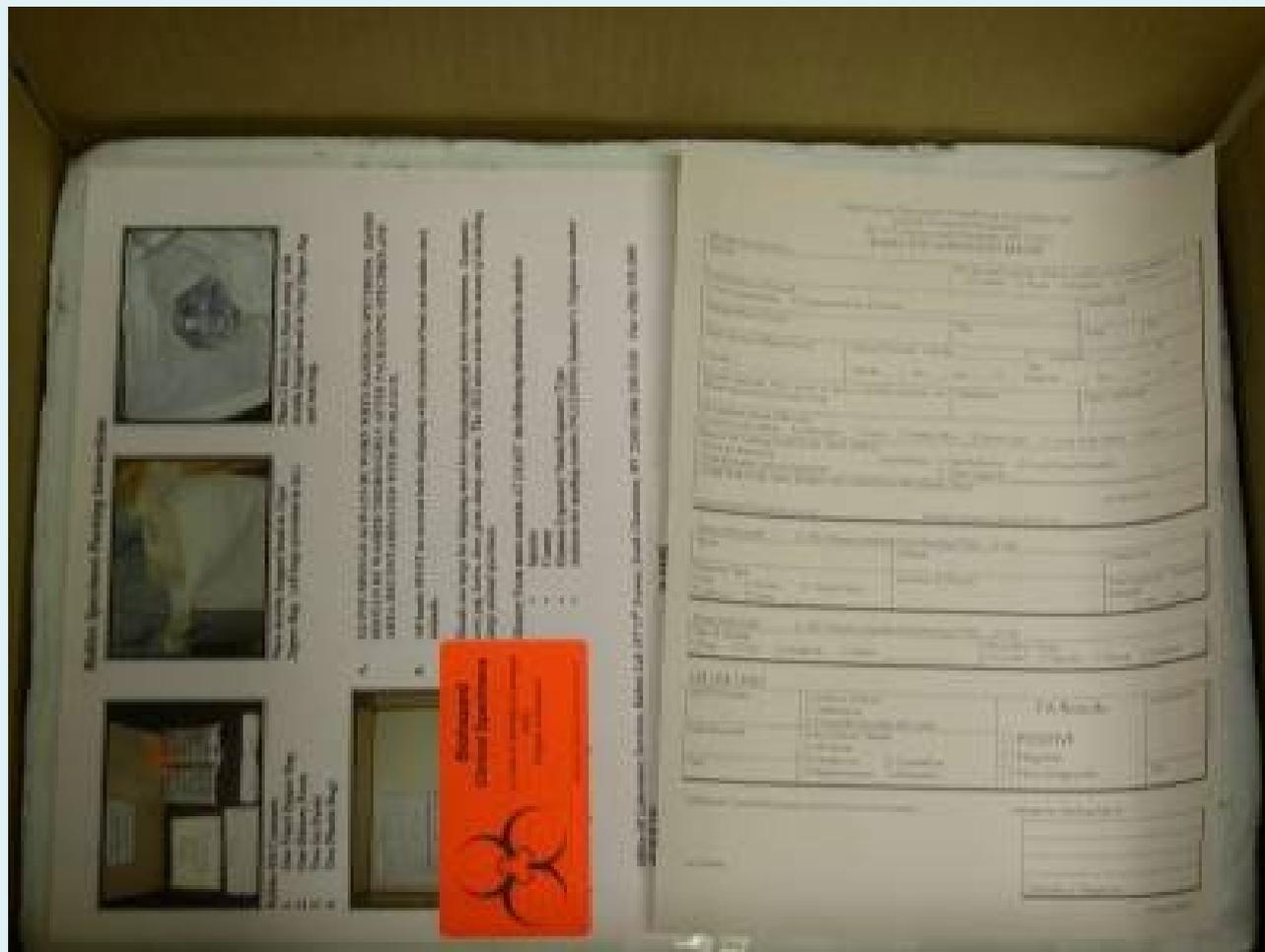
Helpful Hints: Packaging (RABIES)



Place the frozen ice packs around the double bagged specimen inside the vinyl zipper bag.

DO NOT PLACE ICE PACKS IN DIRECT CONTACT WITH THE SPECIMEN!

Helpful Hints: Packaging (RABIES)



Place the “zipped” vinyl zipper bag inside the Rabies box.

Place the Rabies Test Submission Form on **top** of the styrofoam lid, away from the specimen and seal box with tape.

Helpful Hints: Packaging (RABIES)



Place UN3373 and Return Address Labels on the outer part of the box and ship by FedEx, UPS or USPS. (shipper is responsible for costs)

DO NOT ship on Fridays. There is no weekend delivery at OLS. However, After Hours Drop-off is available.

Helpful Hints: Packaging (RABIES)



After Hours Drop-Off:

Specimens can be dropped off at OLS after normal work hours (8am-4pm) by placing the box in our refrigerated building located at the back parking lot entrance.

Please call the Rabies Unit for further instructions for drop off.
304-558-3530 x. 20135

Helpful Hints: Submission Forms and Instructions



https://dhhr.wv.gov/ols/forms/Pages/default.aspx

WV.gov State Agency Directory | Online Services

West Virginia Department of HEALTH OFFICE OF Laboratory Services

Search OLS

About OLS

Support Services

Forms

West Virginia Office of Laboratory Services
167 11th Ave
South Charleston, WV 25303
Phone:
304-558-3530

WVDHHR > Office of Laboratory Services > Forms

Forms

Diagnostic Immunology

Specimen Collection Kit Request Form
[collection kit request forms can be emailed to: dhrolssupplyorder@wv.gov]

Test Request Submission Form (blood/urine)
Test Request Submission Form (Hepatitis only)

TB Clinic Test Request Submission Form
Instructions for TB Clinic Test Request Submission Form

Microbiology

General Microbiology Specimen Collection Kit Request Form
Influenza/Respiratory Pathogen Specimen Collection Kit Request Form
Rabies Sample Collection Kit Request Form
[collection kit request forms can be emailed to: dhrolssupplyorder@wv.gov]

Stool Specimen Collection Instructions (Enterics)
Stool Specimen Collection Instructions (Parasitology)
Pinworm Specimen Collection Instructions
Pertussis Specimen Collection Instructions
Influenza Specimen Collection Instructions
AFB Specimen Collection Instructions

General Microbiology Specimen Test Request Submission Form
Rabies Test Request Submission Form

We have a website!



Microbiology Unit Contacts



304-558-3530

Extension

Micro Supervisor- General

Nicole Haddox

20136

Rabies

John Barry

20135

Hailey Brooks

Hayley Breeding

William Crockett

General Cultures

John Barry

20137

Enterics

John Barry

20137

ARLN (Antibiotic Resistance)

Hayley Breeding

58884

Tuberculosis

Nicole Haddox

20136

Micro Supervisor- Molecular

Patrick Dotson

58868

Rabies Cell Phone (5pm Friday- 8am Monday and Holidays)

304-550-9882

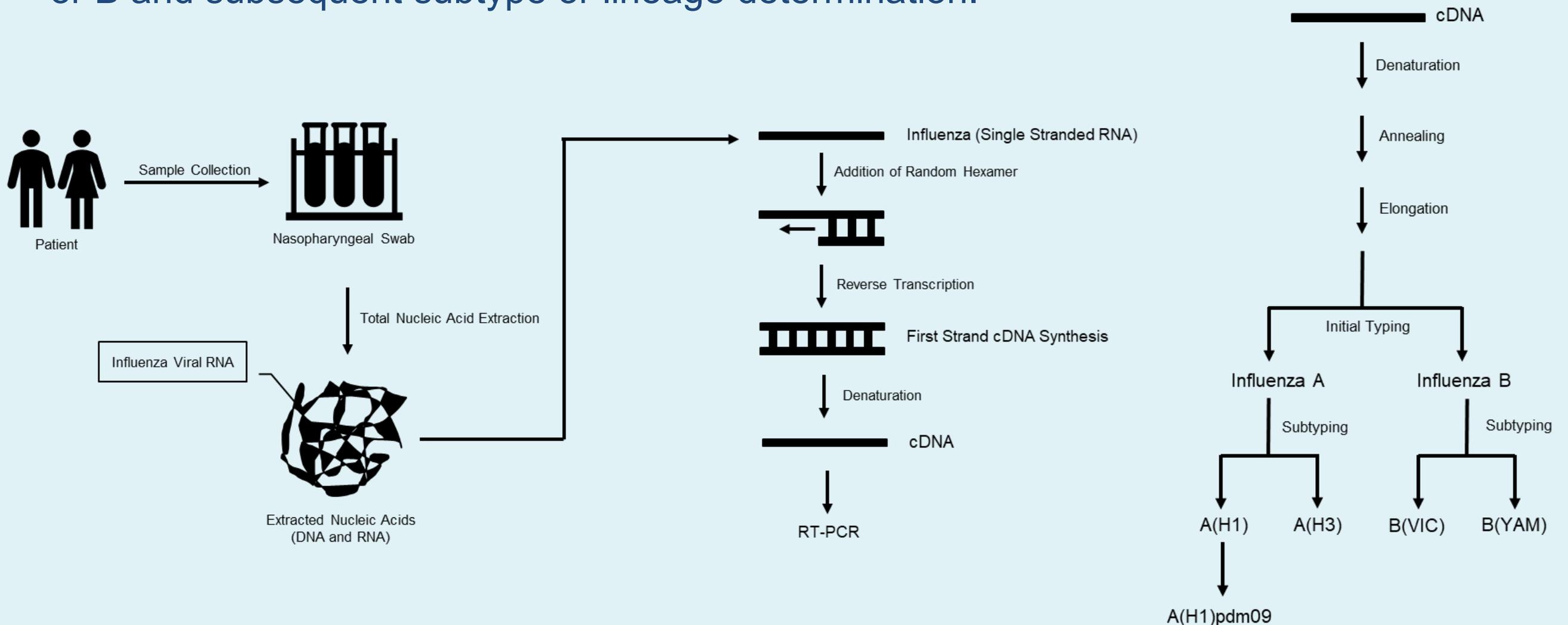
Office of Laboratory Services: Molecular Microbiology

The Molecular Microbiology Section currently uses the following test protocols:

- Influenza Serotyping PCR (Influenza A and B)
- SARS-CoV-2 (COVID-19)
- Respiratory BioFire Panel
- Cepheid PCR
- Sequencing - PulseNet Program

Real Time Reverse Transcriptase Polymerase Chain Reaction (rRT-PCR)

- The CDC real-time reverse transcriptase polymerase chain reaction (rRT-PCR) assay is used to detect the presence of Influenza. PCR is a reaction whereby a single copy of DNA or multiple copies are amplified to enhance the detection of specific sequences.
- A nasopharyngeal specimen is collected from a patient and total nucleic acids is extracted. Total nucleic acids are used for cDNA synthesis prior to rRT-PCR for detection of Influenza A or B and subsequent subtype or lineage determination.



rRT-PCR Continued

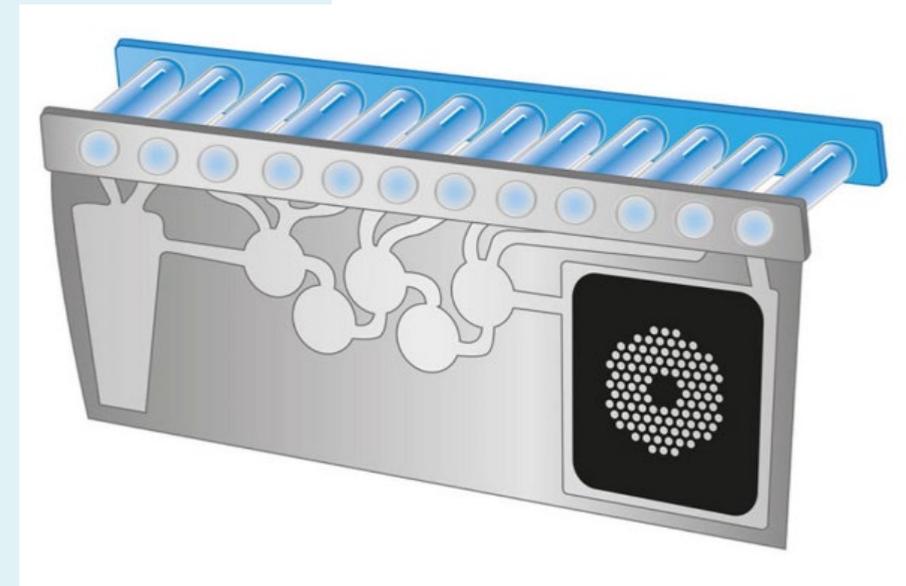
- The CDC rRT-PCR assay uses seven targets.
- The targets correspond to subtypes.
- Designed to detect emerging strains.
- “Unsubtypeable” samples will be forwarded to Bioterrorism unit that is equipt to test for H5/H7 strains.

TARGET	WHAT DOES IT MEAN?
infA	“seasonal” Influenza A
infB	“seasonal” Influenza B
pdm InfA	“2009 pandemic” Influenza A
pdm H1	“2009 pandemic” Influenza AH1
infH3	“seasonal” Influenza AH3
VIC	“Victoria” Influenza B
YAM	“Yamagata” Influenza B

InfA	pdm InfA	pdm H1	H3	InfB	VIC	YAM	Results
+	+	+	-	-	-	-	Influenza A H1 (2009 pandemic)
+	-	-	+	-	-	-	Influenza A H3
-	-	-	-	+	+	-	Influenza B VIC

Respiratory Panel

- BioFire Torch is a multiplex RT-PCR.
- Only one cartridge is needed to test for 18 viruses and four bacteria on our respiratory panel.
- Commonly used in hospitals because of its wide range of testing for only an hour wait.
- We use it for a subset of samples;
 - Outbreak samples
 - OCME samples



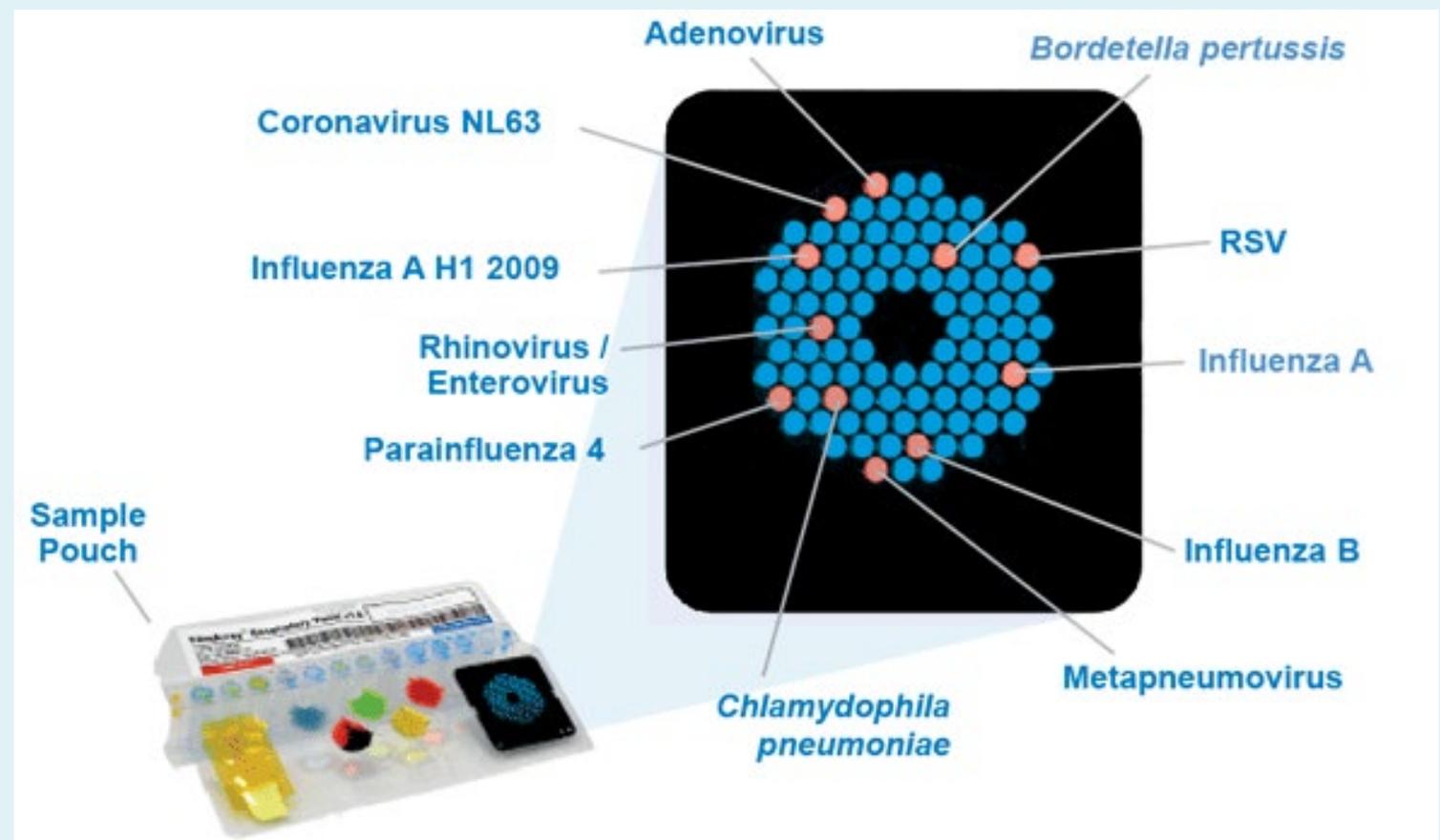
Respiratory Panel List

VIRAL TARGETS

- Adenovirus
- SARS-CoV-2
- Coronavirus HKU1
- Coronavirus NL63
- Coronavirus 229E
- Coronavirus OC43
- Human Metapneumovirus
- Human Rhinovirus/Enterovirus
- Influenza A
- Influenza A/H1
- Influenza A/H3
- Influenza A/H1-2009pdm
- Influenza B
- Parainfluenza Virus 1
- Parainfluenza Virus 2
- Parainfluenza Virus 3
- Parainfluenza Virus 4
- Respiratory Syncytial Virus

BACTERIAL TARGETS

- *Bordetella pertussis*
- *Chlamydomphila pneumoniae*
- *Mycoplasma pneumoniae*
- *Bordetella parapertussis*



Cepheid: GeneXpert

- Another rapid RT-PCR instrument we use.
- Usually for a large outbreak of SARS-CoV-2 samples.
- It's a very simple test with four respiratory results:
 - Influenza A
 - Influenza B
 - SARS-CoV-2
 - RSV



Specimen Collection



- Proper collection of specimens for respiratory testing is crucial!
- Only use supplies provided by OLS or those recommended for use.
- Do not collect any specimen if the patient is on antiviral therapy
 - If a specimen must be collected after therapy has started, collect within 24 hours of initiating therapy.
- Specimens can only be transported in approved Viral Transport Media
 - VTM or UTM.
 - Do Not collect specimens in saline, buffer, or any other media.
 - Only use polyester swabs with plastic or wire.
 - Do not use cotton swabs or calcium alginate swabs or swabs with wooden shafts.

Specimen Collection Continued

Media

- Respiratory specimen (VTM or UTM)
 - Respiratory Panel
 - Influenza RT-PCR [Influenza A H1N1 (H1N1pdm09), H3N2], [Influenza B (Victoria or **Yamagata**)]
 - Unsubtypeable Influenza A [possible H5N1 (avian flu)]
- No saline



Swabs

- Only polyester, Dacron, rayon, etc.
- No cotton



Specimen Handling

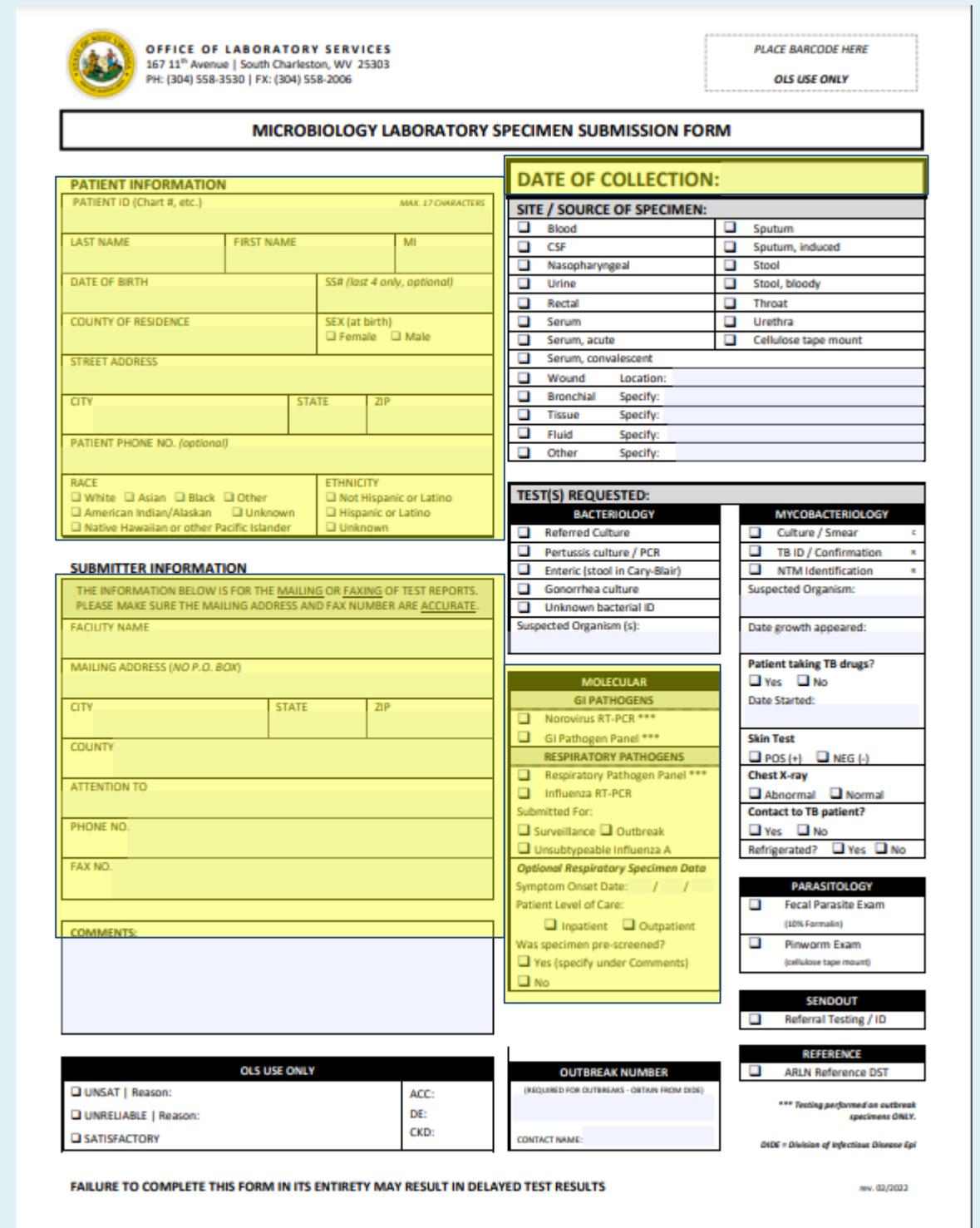
- After collection, keep refrigerated (4°C)
- If the sample is unable to be shipped to the OLS within 72 hours of collection, freeze the sample at -80°C
 - RNA is a sensitive molecule that gets rapidly degraded, especially at warm temperatures including room temperature. Storing the sample at -80°C over a long period can slow the degradation
 - Do not thaw the sample if it has been frozen

OLS Submission Form

- This form can be downloaded and printed from our website dhhr.wv.gov/ols under Forms.

Important Notes about submission form

- Date Of Collection (DOC) must be on the form.
- Influenza samples will be indicated in the Molecular section.
- Name on form and sample tube must match.



OFFICE OF LABORATORY SERVICES
167 11th Avenue | South Charleston, WV 25303
PH: (304) 558-3530 | FX: (304) 558-2006

PLACE BARCODE HERE
OLS USE ONLY

MICROBIOLOGY LABORATORY SPECIMEN SUBMISSION FORM

PATIENT INFORMATION			DATE OF COLLECTION:	
PATIENT ID (Chart #, etc.) <small>MAX 17 CHARACTERS</small>			SITE / SOURCE OF SPECIMEN:	
LAST NAME	FIRST NAME	MI	<input type="checkbox"/> Blood	<input type="checkbox"/> Sputum
DATE OF BIRTH	SSN (last 4 only, optional)		<input type="checkbox"/> CSF	<input type="checkbox"/> Sputum, induced
COUNTY OF RESIDENCE	SEX (at birth) <input type="checkbox"/> Female <input type="checkbox"/> Male		<input type="checkbox"/> Nasopharyngeal	<input type="checkbox"/> Stool
STREET ADDRESS			<input type="checkbox"/> Urine	<input type="checkbox"/> Stool, bloody
CITY	STATE	ZIP	<input type="checkbox"/> Rectal	<input type="checkbox"/> Throat
PATIENT PHONE NO. (optional)			<input type="checkbox"/> Serum	<input type="checkbox"/> Urethra
RACE	ETHNICITY		<input type="checkbox"/> Serum, acute	<input type="checkbox"/> Cellulose tape mount
<input type="checkbox"/> White <input type="checkbox"/> Asian <input type="checkbox"/> Black <input type="checkbox"/> Other	<input type="checkbox"/> Not Hispanic or Latino <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Unknown		<input type="checkbox"/> Serum, convalescent	
SUBMITTER INFORMATION <small>THE INFORMATION BELOW IS FOR THE MAILING OR FAXING OF TEST REPORTS. PLEASE MAKE SURE THE MAILING ADDRESS AND FAX NUMBER ARE ACCURATE.</small> FACILITY NAME MAILING ADDRESS (NO P.O. BOX) CITY STATE ZIP COUNTY ATTENTION TO PHONE NO. FAX NO. COMMENTS:			TEST(S) REQUESTED: BACTERIOLOGY <input type="checkbox"/> Referred Culture <input type="checkbox"/> Pertussis culture / PCR <input type="checkbox"/> Enteric (stool in Cary-Blair) <input type="checkbox"/> Gonorrhea culture <input type="checkbox"/> Unknown bacterial ID Suspected Organism (s):	
			MYCOBACTERIOLOGY <input type="checkbox"/> Culture / Smear <input type="checkbox"/> TB ID / Confirmation <input type="checkbox"/> NTM Identification Suspected Organism: Date growth appeared: Patient taking TB drugs? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Started: Skin Test <input type="checkbox"/> POS (+) <input type="checkbox"/> NEG (-) Chest X-ray <input type="checkbox"/> Abnormal <input type="checkbox"/> Normal Contact to TB patient? <input type="checkbox"/> Yes <input type="checkbox"/> No Refrigerated? <input type="checkbox"/> Yes <input type="checkbox"/> No	
			PARASITOLOGY <input type="checkbox"/> Fecal Parasite Exam (10% Formalin) <input type="checkbox"/> Pinworm Exam (cellulose tape mount)	
OLS USE ONLY <input type="checkbox"/> UNSAT Reason: ACC: DE: CKD: <input type="checkbox"/> UNRELIABLE Reason: DE: CKD: <input type="checkbox"/> SATISFACTORY			SENDOUT <input type="checkbox"/> Referral Testing / ID	
			REFERENCE <input type="checkbox"/> ARLN Reference DST <small>*** Testing performed on outbreak specimens ONLY.</small> <small>OHDC = Division of Infectious Disease Api</small>	
			OUTBREAK NUMBER <small>(REQUIRED FOR OUTBREAKS - OBTAIN FROM OHDC)</small> CONTACT NAME:	

FAILURE TO COMPLETE THIS FORM IN ITS ENTIRETY MAY RESULT IN DELAYED TEST RESULTS

rev. 02/2022

OLS Shipping Kit



OLS Kit Request Form can be downloaded and printed from dhhr.wv.gov/ols

Included in Kit:

- Shipping box
- Prepaid FedEx Return Label
- VTM
- Nasopharyngeal Swabs
- BioHazard Bag, zippered
- Ice packs
- Specimen submission form

INFLUENZA/RESPIRATORY PATHOGEN SPECIMEN COLLECTION KIT REQUEST FORM

REQUEST FROM:		
NAME OF FACILITY		
MAILING ADDRESS		
CITY	STATE	ZIP
NAME OF PERSON REQUESTING KITS		TITLE
PHONE NUMBER	DATE	

COLLECTION KIT	QUANTITY	
	ORDERED	SENT
Complete Collection Kit <i>Includes: viral transport media (1), nasopharyngeal swab (1), plastic biohazard bags (2), ice pack (1), absorbent material, shipping box, specimen submission/test request form.</i>		

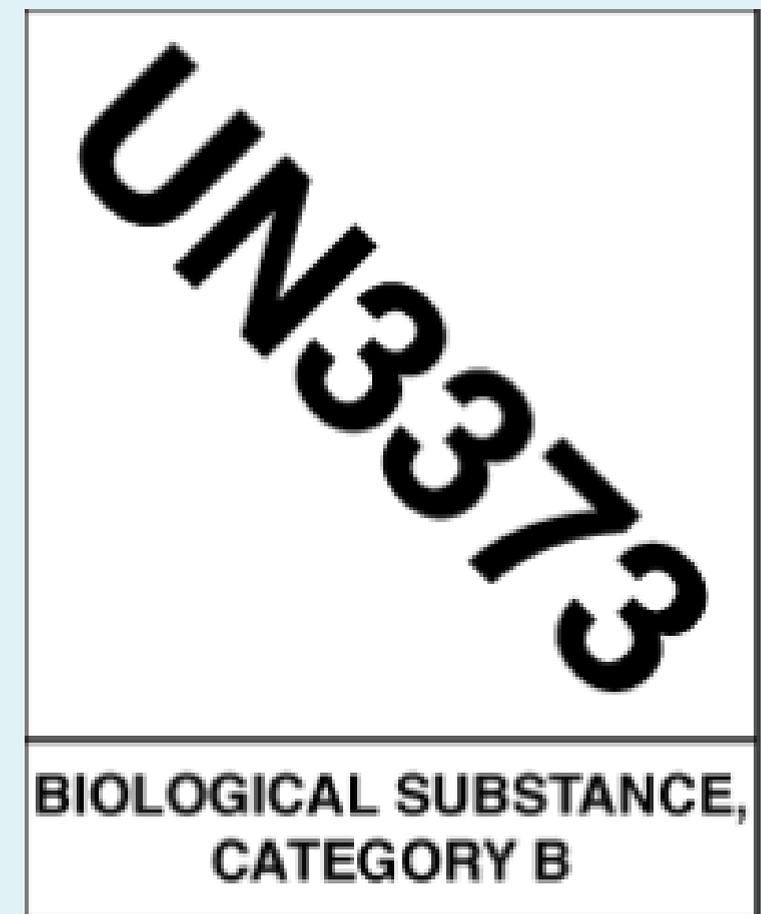
INDIVIDUAL KIT COMPONENTS	QUANTITY	
	ORDERED	SENT
Transport Media (VTM or UTM)		
Nasopharyngeal Swab		
Biohazard Bag, zippered (with absorbent material)		
FedEx® Return Shipping Label		
Shipping Box, insulated		

NOTE: Specimen Submission Test Request Forms can be downloaded from our website at <https://dhhr.wv.gov/ols/forms/Pages/default.aspx>

Return via fax to 304-558-2006 or by email to dhhrrolsupplyorder@wv.gov.

Shipping

- Use FROZEN cold packs to keep sample at appropriate temperature for shipping
- Use current IATA, DOT shipping regulations; Overnight shipping preferred.
- Use prepaid shipping label - do not use supplies for another dept such as Tuberculosis or Diagnostic Immunology



Common Reasons for Rejection

- Specimens collected in media other than VTM / UTM
- Specimens collected with cotton or wooden shaft swabs
- Specimens that arrive damaged or that leak in transport
- Specimens where the VTM has turned yellow
 - This indicates a pH change due to improper storage, transport, or cross contamination
- Specimens that are not labeled with two unique identifiers on the tube
 - Name
 - DOB
 - Patient ID #
 - Social Security #
- More than five samples are sent per week
 - We perform surveillance so we need resources to serve every provider

WV Dept of Health - Office of Laboratory Services

Phone: 304-558-3530 Fax: 304-558-6210

Micro Supervisor- Molecular	Patrick Dotson	58868
Molecular Microbiology	Samantha McCormick	20125
	Eden Cantrell	20124
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Questions?

