Maryland Department of Health (MDH) Laboratories Administration Guidelines and Instructions for Zika Testing

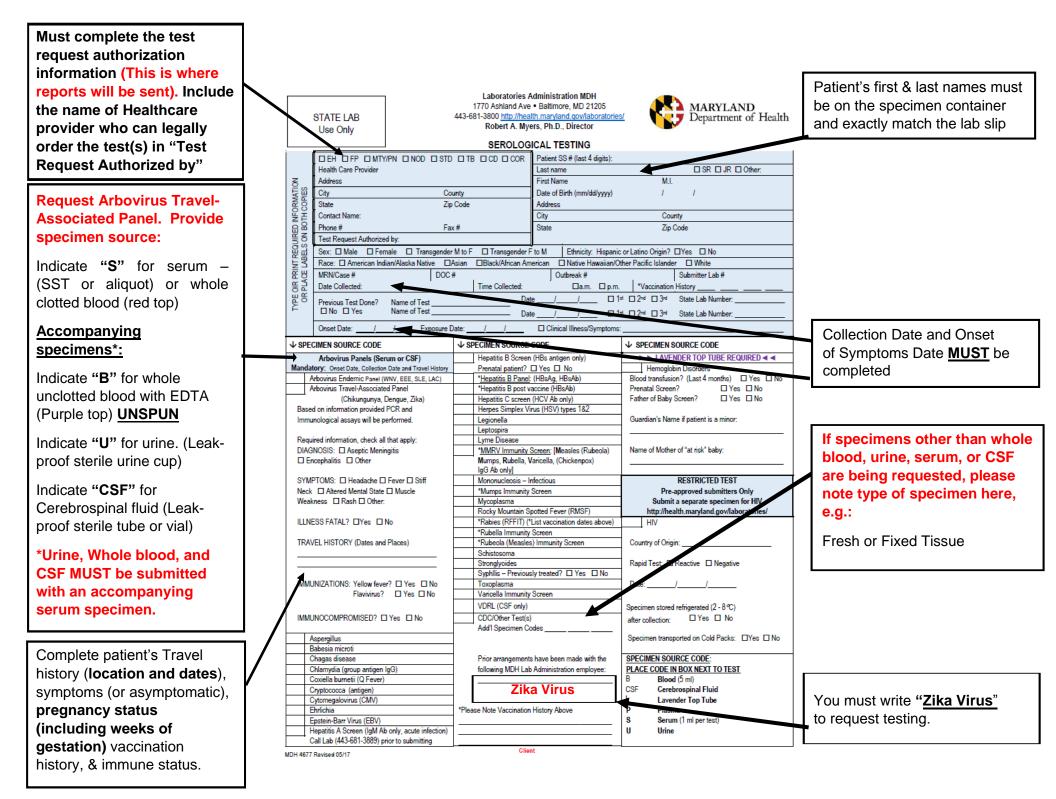
An infectious disease consultation with MDH is no longer required to authorize specimens for Zika virus testing at the MDH Laboratory. However, prior to submission of specimens, review of the current MDH Zika virus testing guidance at <u>https://phpa.health.maryland.gov/pages/zika.aspx</u> is highly recommended, as well as the CDC guidance found in the links below.

Specimen Collection and Handling

Testing Category	Specimen Type (see notes 1 & 2)	Volume/Amount	Collect in:	Storage and Shipping Conditions (see note 3 for storage > 5 days)
Symptomatic Adults and Children	Serum	3-5ml (6-10 ml blood draw)	Red top, tiger top, or gold top serum separator tube	Refrigeration (2-8°C)
Asymptomatic Pregnant Women	Whole Blood	4-5 ml	Purple top EDTA tube	Refrigeration (2-8°C)
(for whom testing is indicated)	Urine	5-10 ml	Leak proof, sterile urine cup; label as urine	Refrigeration (2-8°C)
Refer to http://www.cdc.gov/zika/h c-providers/types-of- tests.html	Cerebral Spinal Fluid (CSF)	1-2 ml	Leak proof, sterile tube or vial; label as CSF	Refrigeration (2-8°C)
Infants (within 2 days of birth)	Serum	≥2 ml serum (≥4 ml blood draw)	Red top, tiger top, or gold top serum separator tube	Refrigeration (2-8°C)
Refer to CDC Guidelines on Collecting and Submitting Specimens at	Urine	5-10 ml	Leak proof, sterile urine cup; label as urine	Refrigeration (2-8°C)
Time of Birth for Zika Virus Testing <u>http://www.cdc.gov/zika/hc</u> -providers/test-specimens- at-time-of-birth.html	<u>Fixed</u> Placenta, Fetal membrane, Umbilical Cord	 inch square of: Umbilical cord Fetal membranes Placental disk edge Placental disk midsection Pathologic Lesions 	Fix specimens in formalin; volume of formalin used should be as small as possible, but about 10x mass of tissue. (see note 4 for further instructions)	Room Temperature

<u>Notes</u>

- 1) A serum specimen must accompany all urine, CSF, or whole blood specimens, or testing will not be performed.
- 2) Plasma is not accepted for Zika testing at MDH.
- 3) If specimens (except whole blood and fixed tissue) are to be held for longer than 5 days after collection until delivery to the testing lab, it is recommended to freeze to $\leq 20^{\circ}$ C and ship frozen (on dry ice). Avoid repeating freezing and thawing cycles. Whole blood EDTA should not be frozen but refrigerated and tested within one week of collection. Fixed tissue should be held and shipped at room temperature.
- 4) Place tissue collected according to the dimensions provided above in 10% buffered formalin for three days (72 hours). After fixation, if not paraffin-embedded, tissues SHOULD be transferred to 70% ethanol for long term storage and for shipping.



STATE LAB Use Only

Laboratories Administration MDH 1770 Ashland Ave • Baltimore, MD 21205 443-681-3800 <u>http://health.maryland.gov/laboratories/</u> Robert A. Myers, Ph.D., Director



SEROLOGICAL TESTING

		SERULUG	ICAL TESTING				
	□ EH □ FP □ MTY/PN □ NOD □ STD	□TB □CD □COR	Patient SS # (last 4 digits):				
	Health Care Provider	Last name		SR IJR Other:			
3			First Name M.I.				
		unty					
MA		,					
OR	1	Code	Address				
Address City Cord State Zip Contact Name: Phone # Phone # Fax Test Request Authorized by: Sex: Sex: Male Female Transgender Race: American Indian/Alaska Native MRN/Case # DOC = Date Collected: Previous Test Done? Name of Test			City	County			
		: #	State	Zip Code			
UIR	Test Request Authorized by:						
EO	Sex: 🗆 Male 🗖 Female 🗖 Transgender	□ Male □ Female □ Transgender M to F □ Transgender F		c or Latino Origin? □Yes □ No			
IT R ABI	Race: American Indian/Alaska Native A	ther Pacific Islander White					
RIN	MRN/Case # DOC #		Outbreak # Submitter Lab #				
LAC							
IO S	Date Collected:		a.m. p.m. *Vaccination History				
I PE	Previous Test Done? Name of Test	Date / Ist 2nd 3rd State Lab Number: Date / / Ist 2nd 3rd State Lab Number:					
Ē	□ No □ Yes Name of Test						
	-						
	Onset Date: / / Exposure D	ate://	Clinical Illness/Symptoms:				
↓ SPEC	CIMEN SOURCE CODE		CODE	✤ SPECIMEN SOURCE CODE			
	Arbovirus Panels (Serum or CSF)	Hepatitis B Screen	(HBs antigen only)	► ► LAVENDER TOP TUBE REQUIRED ◄ ◄ Hemoglobin Disorders			
Mandat	ory: Onset Date, Collection Date and Travel History	Prenatal patient?					
A	rbovirus Endemic Panel (WNV, EEE, SLE, LAC)	*Hepatitis B Panel		Blood transfusion? (Last 4 months)			
A	rbovirus Travel-Associated Panel	*Hepatitis B post v		Prenatal Screen? □ Yes □ No Father of Baby Screen? □ Yes □ No			
	(Chikungunya, Dengue, Zika)	Hepatitis C screen					
Based on information provided PCR and		Herpes Simplex Virus (HSV) types 1&2					
Immunological assays will be performed.		Legionella		Guardian's Name if patient is a minor:			
		Leptospira		· · · · · · · · · · · · · · · · · · ·			
Required information, check all that apply:		Lyme Disease					
DIAGNOSIS: D Aseptic Meningitis		*MMRV Immunity Screen: [Measles (Rubeola)		Name of Mother of "at risk" baby:			
□ Encephalitis □ Other		Mumps, Rubella, Varicella, (Chickenpox)					
		IgG Ab only]					
SYMPTOMS: □ Headache □ Fever □ Stiff Neck □ Altered Mental State □ Muscle Weakness □ Rash □ Other:		Mononucleosis – Infectious		RESTRICTED TEST			
		*Mumps Immunity Screen		Pre-approved submitters Only Submit a separate specimen for HIV http://health.maryland.gov/laboratories/			
		Mycoplasma					
		Rocky Mountain Spotted Fever (RMSF)					
ILLNESS FATAL? Yes INO		*Rabies (RFFIT) (*List vaccination dates above)		HIV			
		*Rubella Immunity Screen					
TRAV	'EL HISTORY (Dates and Places)	*Rubeola (Measles) Immunity Screen		Country of Origin:			
		Schistosoma					
		Stronglyoides		Rapid Test: 🗖 Reactive 🗖 Negative			
		Syphilis – Previously treated? □ Yes □ No					
IMMU	NIZATIONS: Yellow fever? D Yes D No	Toxoplasma		Date://			
	Flavivirus? 🛛 Yes 🗖 No	Varicella Immunity Screen					
		VDRL (CSF only)		Specimen stored refrigerated (2 - 8 $^{\circ}$ C)			
IMMI	NOCOMPROMISED? 🗖 Yes 🗖 No	CDC/Other Test(s)		after collection: Yes No			
		Add'I Specimen Codes					
A	spergillus			Specimen transported on Cold Packs: □Yes □ No			
Babesia microti							
		Prior arrangements	s have been made with the	SPECIMEN SOURCE CODE:			
Chlamydia (group antigen IgG)		following MDH Lab Administration employee:		PLACE CODE IN BOX NEXT TO TEST			
Coxiella burnetii (Q Fever)				B Blood (5 ml)			
Cryptococca (antigen)				CSF Cerebrospinal Fluid			
Cytomegalovirus (CMV)		*Please Note Vaccination History Above		L Lavender Top Tube			
Ehrlichia				P Plasma			
Epstein-Barr Virus (EBV)				S Serum (1 ml per test)			
Hepatitis A Screen (IgM Ab only, acute infection)				U Urine			
	all Lab (443-681-3889) prior to submitting						
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CLINIC CODES

EH – Employee Health FP – Family Planning MTY/PN – Maternity/Prenatal NOD – Nurse of Day STD/STI – Sexually Transmitted Disease/Infections CD- Communicable Disease COR – Correctional Facility **Do not mark a box if clinic type does not apply**

COMPLETING FORM

Type or print legibly Print labels are recommended Please print labels on all copies of form Write the person's name that is authorized to order test in the box provided Press firmly – two part form Collection date and time are required by Law. WRITE SPECIMEN CODE in box next to test *Specimen/samples cannot be processed without a requested test.

VACCINATION HISTORY

List vaccination dates for all Rabies, Hepatitis B and MMRv (Mumps, Measles, Rubella and Varicella) test request.

Rabies Vaccination history is required for all RFFIT test requests.

HIV TESTING

Include previous HIV Test information in the top section under Previous Test done. Submit a separate specimen for HIV testing when multiple tests are ordered on the one form.

Questions/comments on the use of the specimen bags/storage/shipping or completing the form contact:

Accessioning Unit 443-681-3842 or 443-681-3793

To order collection kits and/or specimen collection supplies, contact:

Outfit Unit 443-681-3777 or Fax 443-681-3850

For Specific Test Requirements Refer to: "Guide to Public Health Laboratory Services" Available online: mdh.maryland.gov/laboratories

LABELING SPECIMENS/SAMPLES

Printed labels with all required patient information are recommended.

Print patient name, date of birth. Print date and time the specimen was collected.

DO NOT cover expiration date of collection container.

Write specimen source on the collection container(s).

PACKAGING SPECIMENS FOR TRANSPORT

Never place specimens with different temperature requirements in the same biobag.

Use one (1) biobag per temperature requirement.

Review test request form to ensure all test(s) have been marked.

Verify all specimens have been labeled.

Place folded request form(s) in outer pouch of biobag.

Multiple specimens from the same patient with the same temperature requirements must be packaged together in one (1) biobag.

URINE SPECIMENS – Refrigerate PACKAGING AND SHIPPING Double bag all urine specimens.

Urine specimens require absorbent towel in biobag with specimen (express excess air before sealing).

Place bagged urine specimen in second biobag with all refrigerated specimens from the same patient.

Place folded test request form(s) in outer pouch of second bag.