# Measles Specimen Collection and Shipment

## North Carolina State Laboratory of Public Health

The Communicable Disease Branch must approve testing for Measles at the North Carolina State Laboratory of Public Health (NCSLPH) prior to specimen collection. All Measles specimens submitted to the NCSLPH must meet the testing criteria. This Measles guidance applies only to testing at the NCSLPH. Contact the NCDHHS Communicable Disease Branch (919-733-3419, available 24/7) immediately if Measles is suspected. Contact NCSLPH (919-733-3937) for testing guidance prior to specimen collection.

## **Specimen Collection**

**Real-Time PCR (RT-PCR) Detection of Measles** ALL swab specimens for testing at NCSLPH must be collected in Viral Transport Media (VTM).

#### **RT-PCR Specimens for Patients with Symptoms** Preferred Specimens (Paired)

1) \*Nasopharyngeal (NP) swab in VTM

2) Urine (15-50mLs) in a sterile cup

\*Swabs must be synthetic tipped, sterile swab of appropriate size with aluminum or plastic shaft

#### Measles-specific IgM Serologic Testing

A serum specimen can be collected with paired NP and Urine.

#### Serologic Specimens for Patients with Symptoms Preferred Specimen

1) 2-3mLs of serum in plastic screw-capped vial <u>Note:</u> Detection of measles-specific IgM serology is optimal >3 days from rash onset.

#### Specimen Labeling

Label specimens completely: Specimen Type Patient Name Date of Birth Date of Collection

#### Specimen Storage Until Shipment

Refrigerate at 2-8° C for shipment within 24hrs Freeze  $\leq$  -20° C for storage longer than 72hrs

#### Specimen Submission Forms

Please fill out completely Virology submission form (Swabs/Urine) Special Serology form & CDC DASH form (Serum)



## Specimen Shipment

- Specimen collection, packaging, and shipment supplies can be ordered online at: <u>NCSLPH Online Supply Ordering System</u>
- Specimens shipped via commercial courier must meet <u>Category B, UN3373</u> requirements. Local Health Departments can use the NCDOA Medical Courier for specimen shipment.
- Call NCSLPH Customer Service at 919-733-3937 for any questions related to specimen collection, storage, and shipment. After business hours, please contact the BTEP duty phone at 919-807-8600.
- Specimens MUST be received cold/frozen
  - Specimens received <72 hours after collection must be shipped on frozen ice packs and received cold (2-8°C).
  - Specimens received >72 hours after collection must be shipped and received frozen on dry ice.

#### Label the package completely:

Attention: Virology/Serology Unit North Carolina State Laboratory of Public Health 4312 District Drive Raleigh, NC 27607-5490

### **Result Reporting**

Results are posted electronically to the NCSLPH <u>Clinical and Environmental Lab Results</u> website associated with the submitter's EIN number. Visit the <u>NCSLPH website</u> for account setup and tutorials.

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