Instructions for specimen collection and transport for laboratory testing of
*Corynebacterium diphtheriae* and *C. ulcerans*

**Specimens for culture:**

Swabs taken from the nose, throat or wounds may be submitted to the Pertussis and Diphtheria Laboratory (PDL) for culture of *C. diphtheriae* and *C. ulcerans*. Polyester, rayon or nylon swabs should be used. The swabs should be placed in transport media such as Amies or Stuart and shipped overnight with ice packs. Dry swabs submitted in silica gel sachets are also acceptable.

Pieces of pseudo-membrane may also be submitted for culture. Pseudo-membrane should be placed in sterile saline (not formalin) and shipped overnight with ice packs.

**Specimens for PCR:**

**CDC does not perform PCR to rule out diphtheria unless diphtheria anti-toxin (DAT) has been requested to treat the patient.**

Please contact your state or local health department or the CDC Emergency Operations Center (770-488-7100) to make arrangements to receive DAT.

Swabs taken from the nose, throat or wounds can be tested by PCR for the presence of the A and B subunits of the diphtheria toxin gene (*tox*). The presence of *tox* does not necessarily indicate that toxin is being produced, and this PCR assay does not distinguish between *C. diphtheriae* and *C. ulcerans*. Swabs for PCR can be shipped in the same manner as swabs for culture, or they may be placed in a sterile tube or silica gel sachet. Swabs for PCR should be shipped overnight with ice packs.

Pieces of pseudo-membrane may also be submitted for PCR testing. Pseudo-membrane should be placed in sterile saline (not formalin) and shipped overnight with ice packs.

**Isolates for confirmation and toxigenicity testing:**

Isolates of *C. diphtheriae* and *C. ulcerans* may be submitted for confirmation and toxigenicity testing in the Elek assay. Pure isolates should be cultured on tryptic soy agar slants (TSA), blood agar slants, or other common agar slants. Isolates should be sent overnight at ambient temperature.

**Specimens for serology:**

At this time, CDC does not test sera for antibodies to *C. diphtheriae*. Please do not submit sera for testing.
Shipping Specimens:

Each specimen submitted should be accompanied by a completed DASH form.

Specimens should be shipped overnight to:

Centers for Disease Control and Prevention
Attention: Pam Cassiday, STAT Unit 12
1600 Clifton Road NE
Atlanta, GA 30333

If you have questions or require additional information, please contact:
Pam Cassiday
404-639-1231
PCassiday@cdc.gov or

CDC Emergency Operations Center
770-488-7100