

NEW TESTS			
Test Code	Test Name	Effective Date	Page #
Test ID 710	Orthopox, conclusion, Qualitative Real-Time PCR	7/18/2022	1

Announcements

The State Hygienic Laboratory is pleased to announce the release of the Monkeypox Virus DNA, Qualitative Real Time PCR test (Miscellaneous, Test ID 710). This is a PCR test intended for the **qualitative detection of non-variola Orthopoxviruses (VAC1 assay)**.

Monkeypox is a rare disease caused by infection with the monkeypox virus. Monkeypox virus belongs to the *Orthopoxvirus* genus in the family *Poxviridae*. The *Orthopoxvirus* genus also includes variola virus (which causes smallpox), vaccinia virus (used in the smallpox vaccine), and cowpox virus. Monkeypox is also unrelated to the chickenpox virus of the *Herpesviridae* family. Scientists at the Centers for Disease Control and Prevention (CDC) are tracking multiple cases of monkeypox that have been reported in several countries that have not reported monkeypox in the past, including the United States.

Reporting Requirements: **Clinicians must report suspected monkeypox cases to the IDPH Center for Acute Disease Epidemiology (CADE) as soon as monkeypox is suspected and PRIOR TO COLLECTING SPECIMENS.**

Specimens approved by IDPH for testing at SHL should be submitted using a current **IDPH Epidemiological Investigation Test Request Form (TRF) obtained by contacting IDPH CADE.**

IDPH will consult with CDC and SHL to determine the need and plan for laboratory testing.

Contact Information:

- IDPH CADE..... (business hours) 515-242-5935 | (non-business hours) 515-323-4360
- SHL..... 319-335-4500 or 1-800-421-4692

Monkeypox Virus DNA, Qualitative Real-Time PCR							
Clinical Significance	The Monkeypox Virus DNA, Qualitative Real-time PCR test is intended for the qualitative detection of non-variola Orthopoxviruses and Monkeypox virus DNA using swabs from human pustular or vesicular rash specimens.						
Effective Date	7/18/2022						
Specimen Collection	Collect two specimens into separate tubes. Use two TRF. One goes to SHL, one to CDC.						
Specimen Requirements	Monkeypox Dry Swab Kit, or Monkeypox VTM Kit, order at www.shl.uiowa.edu/kitsquotesforms/clinicalkit.xml						
Reject Criteria	Cotton or rayon swabs; wooden swabs; M4 media, UTM; FlexTrans						
Instructions	Swab the lesion vigorously and place the swab into a viral transport media (VTM) or dry swab tube. Lesion crust also acceptable. Each individual specimen submitted for Monkeypox virus testing should be accompanied by its own TRF and transported in its own sealed bag. Multiple specimens collected on a single patient should be submitted separately. Ship frozen (preferred) or refrigerated.						
Transport Temperature	Refrigerated specimen - ship on ice packs; Frozen specimen - ship on dry ice						
Specimen Stability	<table border="1"> <tr> <td>Room temperature</td> <td>Unacceptable</td> </tr> <tr> <td>Refrigerated</td> <td>7 days</td> </tr> <tr> <td>Frozen</td> <td>30 days</td> </tr> </table>	Room temperature	Unacceptable	Refrigerated	7 days	Frozen	30 days
Room temperature	Unacceptable						
Refrigerated	7 days						
Frozen	30 days						
Set-up/Analytic Time	Set up: Daily; Report available: 2-3 days						
Reference Range	<table border="1"> <tr> <td>Result Name</td> <td>Reference Range</td> </tr> </table>	Result Name	Reference Range				
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