

MLS Laboratory Update: *Blastomyces, Histoplasma,* and *Coccidioides* Identification Testing and Reporting updates at MDH-PHL

MAY 3, 2022

Purpose of this Message:

To inform MLS laboratories about updates in testing practices at the MDH-PHL regarding methods and reporting for identification of Blastomyces, Histoplasma, and Coccidioides on submitted isolates. These changes will be implemented immediately.

Action Item:

Please forward this information to Laboratory staff and Infection Prevention and Control partners, as applicable.

Background - Changes:

MDH-PHL has validated two new real-time polymerase chain reaction (PCR) assays that will replace the current DNA probe method for identification of *Blastomyces, Histoplasma,* and *Coccidioides* on submitted isolates.

1. The Blastomyces & Histoplasma PCR will identify Blastomyces and Histoplasma capsulatum and differentiate between Blastomyces dermatitidis and Blastomyces glichristii.

a. Negative result:

- i. Blastomyces dermatitidis negative
- ii. Blastomyces gilchristii negative
- iii. Histoplasma capsulatum negative
- iv. "A negative Histoplasma capsulatum result may indicate the targeted gene is absent or altered. Fungal identification in progress. Final report to follow."
- b. **Positive result** (one example):
 - i. Blastomyces dermatitidis POSITIVE
 - ii. Blastomyces gilchristii negative
 - iii. Histoplasma capsulatum negative
- 2. The Coccidioides PCR will identify Coccidioides immitis/posadasii.
 - a. Negative result:
 - i. Coccidioides immitis/posadasii negative
 - ii. "Fungal identification in progress. Final report to follow."
 - b. Positive result:
 - i. Coccidioides immitis/posadasii POSITIVE

<u>FDA disclaimer</u>: "This test was developed and its performance characteristics determined by the MDH public health laboratory. It has not been cleared or approved by the U.S. food and drug administration 21cfr 809.30(e). The FDA has determined that such clearance is not necessary."

Additional Information:

Culture confirmation of positives will no longer be performed unless specifically requested. Isolates that are negative for all targets tested will have further identification performed with results to follow.

For isolates suspicious for *Blastomyces* or *Histoplasma*, order Blastomyces & Histoplasma PCR – Isolate (BLASTOHISTOPCR).

For isolates suspicious for *Coccidioides*, order Coccidioides PCR – Isolate (COCCIPCR).

If you request both, we will run both assays. Continue to request Fungal Identification for all other isolates referred to MDH-PHL.

Questions: Please contact: Paula Vagnone 651-201-5581 or paula.snippes@state.mn.us

THIS IS AN UPDATE FROM THE MINNESOTA DEPARTMENT OF HEALTH – PUBLIC HEALTH LABORATORY (MDH-PHL) AND THE MINNESOTA LABORATORY SYSTEM (MLS). THIS MESSAGE IS BEING SENT TO MLS LABORATORY CONTACTS SERVING MINNESOTA RESIDENTS. YOU ARE NOT REQUIRED TO REPLY TO THIS MESSAGE.

PLEASE FORWARD THIS TO ALL APPROPRIATE PERSONNEL WITHIN YOUR INSTITUTION AND HEALTH SYSTEM

THE CONTENT OF THIS MESSAGE IS INTENDED FOR PUBLIC HEALTH AND HEALTH CARE PERSONNEL AND RESPONSE PARTNERS WHO HAVE A NEED TO KNOW THE INFORMATION TO PERFORM THEIR DUTIES. IT IS FOR OFFICIAL USE ONLY. DO NOT DISTRIBUTE BEYOND THE INTENDED RECIPIENT GROUPS AS DESCRIBED IN THIS MESSAGE.

Minnesota Laboratory System Minnesota Department of Health, Public Health Laboratory 601 Robert St. N, St. Paul, MN 55164-0899 651-201-5200 <u>health.mnlabsystem@state.mn.us</u> www.health.state.mn.us/diseases/idlab/mls/index.html

05/03/2022 To obtain this information in a different format, call: 651-201-5200.