Lab Dept: Urine/Stool

Test Name: BLASTOMYCES ANTIGEN, URINE

General Information

Lab Order Codes:	BAG
Synonyms:	N/A
CPT Codes:	87449 – Infectious agent antigen detection by EIA technique
Test Includes:	Urine Blastomyces Antigen level reported in ng/mL.

Logistics

Test Indications:	Diagnosis of infection with Blastomyces dermatidis. Monitor antigen levels following initiation of antifungal treatment.
Lab Testing Sections:	Urine/Stool - Sendouts
Referred to:	Mayo Clinic Laboratories (MML Test: UBLAS)
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours, test performed Monday - Saturday
Turnaround Time:	1 -2 days
Special Instructions:	Use sterile collection technique.

Specimen

Specimen Type:	Urine, random
Container:	Sterile leak-proof container
Draw Volume:	4 mL (Minimum: 2.5 mL) urine
Processed Volume:	Same as Draw Volume
Collection:	Routine urine collection, or other appropriate collection technique. Maintain sterility during collection and forward promptly to the laboratory.

Special Processing: Lab Staff: Mix random urine sample well. Remove aliquot into a plastic scew-capped tube.. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

ng/mL	Result Interpretation
0.0 mg/dL	None Detected
<1.3 ng/mL	Detected
1.3 – 20.0 ng/mL	Detected
>20.0 ng/mL	Detected

Critical Values: N/A

Limitations:

- Cross-reactivity with other fungal infections, including Histoplasma capsulatum, may occur. Positive results should be correlated with other clinical and laboratory findings (eg, culture, serology)
- Low-level positive antigen levels may persist following resolution of infection and completion of appropriate treatment regimen
- Turbid urine specimens, containing excess protein, cells or particulate matter can inhibit the function of the test
- Sensitivity of this assay to detect antigen from species other than Blastomyces dermatidis is unknown

Methodology: EIA (Enzyme Immunoassay)

References: Mayo Clinic Laboratories May 2021

Updates:

7/2/2009: Added other specimen types (BALF, other sterile body fluids)
2/8/2011: Units change, previously reported as EIA Units. Reference range update.
5/15/2012: Note reference range interpretation update.
1/13/2015: Added plasma as a specimen type.
3/9/2020: Orderable test is specific to Urine, other specimen types removed.
5/4/2021: No longer forwarded to Mira Vista, Mayo performing internally.