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## ***Histoplasma* and *Blastomyces* Antigen, Enzyme Immunoassay, Urine**

**Test ID:** UHBAG

### **Useful for:**

- Diagnosing *Histoplasma capsulatum* or *Blastomyces dermatitidis* infection without differentiation between the organisms
- Monitor antigen levels following initiation of antifungal treatment

### **Highlights:**

- This test detects *Histoplasma* and *Blastomyces* antigen in urine, without differentiation between the 2 fungal pathogens.
- This test aids in the diagnosis of histoplasmosis or blastomycosis alongside other routine methods, including culture, molecular testing, and serology.
- This test can be used to monitor response to antifungal therapy

### **Methods:**

Enzyme Immunoassay (EIA)

### **Reference Values:**

Histoplasma/Blastomyces Antigen Result:  
Not Detected

Histoplasma/Blastomyces Antigen Value:

Not Detected: 0.0 ng/mL

Detected: <1.3 ng/mL

Detected: 1.3-20.0 ng/mL

Detected: >20.0 ng/mL

Reference values apply to all ages.

### **Specimen Requirements:**

<b>Supplies:</b>	Sarstedt Aliquot tube, 5 mL (T914)
<b>Container/Tube:</b>	Plastic vial
<b>Specimen Volume:</b>	3 mL
<b>Collection Instructions:</b>	1. Collect a random urine specimen, with no preservative. 2. <b>Do not centrifuge</b> to remove particulates
<b>Minimum Volume:</b>	2.5 mL

### Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	14 days
	Ambient	7 days
	Frozen	28 days

### Cautions:

- Due to significant cross-reactivity between galactomannan antigens from *Blastomyces* and *Histoplasma*, this assay does not differentiate between these 2 dimorphic fungal agents. To differentiate, consider fungal culture, molecular testing, or serology testing.
- 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.
- Sensitivity of this assay to detect antigen from species other than *Blastomyces dermatitidis* or *Histoplasma capsulatum* is unknown.
- False-positive results may occur less frequently with other dimorphic agents (eg, *Coccidioides*).

### CPT Code:

87449

**Day(s) Performed:** Monday through Sunday

**Report Available:** Same day/1 to 3 days

### Questions

Contact Dunisha Messmer, Laboratory Resource Coordinator at 800-533-1710.