

Rapid, Accurate Diagnosis for Life-Threatening Fungal Infections: Get the Answers You Need, Faster.

The Challenge of Dimorphic Fungal Infections?

Dimorphic fungi like *Blastomyces*, *Histoplasma*, and *Coccidioides*, along with the pathogenic yeast *Cryptococcus*, are insidious pathogens capable of causing severe, sometimes life-threatening infections. These fungi can manifest in various ways, often affecting the lungs but with the potential to disseminate to other critical areas like the central nervous system, skin, and other organs. Recognizing and rapidly identifying these infections is paramount to preventing devastating consequences for your patients.

In the fight against invasive fungal infections, every hour counts. Delayed diagnosis directly correlates with increased morbidity and mortality. Rapid, accurate identification of the causative fungus is essential for initiating appropriate, targeted antifungal therapy quickly. Empowering you with fast, reliable diagnostic information is our mission, enabling you to make timely clinical decisions that can dramatically improve patient outcomes and potentially save lives.

Introducing Quantitative PCR for Dimorphic Fungi: A Breakthrough in Fungal Diagnostics

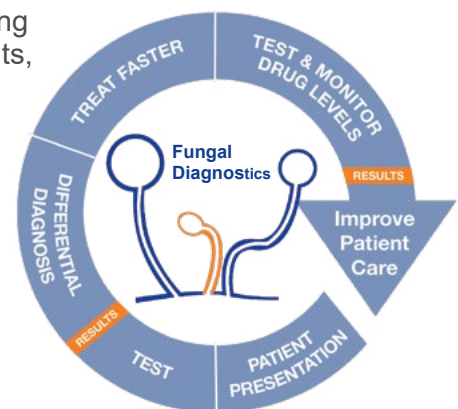
Quantitative PCR represents a significant leap forward in fungal diagnostics, overcoming the inherent limitations of traditional methods. By directly detecting the unique genetic signatures of these pathogens, qPCR provides a level of speed and accuracy previously unattainable, fundamentally changing the diagnostic timeline for suspected dimorphic fungal infections.

That's why Eurofins Viracor developed Real-time qPCR Assays for Dimorphic Fungi. These advanced molecular tests are designed to rapidly and specifically identify *Blastomyces spp.*, *Histoplasma spp.*, *Coccidioides spp.*, and *Cryptococcus (C. gattii &/or C. neoformans)* directly from BAL, Sputum, and CSF.

The Eurofins Viracor qPCR Assays for Dimorphic Fungi are powerful tools for the rapid, accurate identification of these microorganisms. These cutting-edge tests utilize the power of qPCR to deliver the critical information you need faster than ever before.

Why Choose Dimorphic Fungal Quantitative PCR Testing?

- **Faster Time to Result:** Results in hours, not days or weeks. (Crucial for guiding timely treatment).
- **Enhanced Sensitivity and Specificity:** Detects low fungal burdens. (Important for early detection). Targets specific fungal DNA, reducing false positives. (Ensures confidence in results)
- **Streamlined Workflow:** Works directly on clinical specimens, bypassing culture delays. Ideal for rapid diagnosis in immunocompromised patients, suspected meningitis, or acute pulmonary presentations.
- **Improved Patient Outcomes:** Diagnosing dimorphic fungal infections traditionally relies on methods that can be slow and insensitive. Fungal cultures can take weeks to yield results, delaying critical treatment decisions. Serology, while useful, often lacks sensitivity in immunocompromised patients and may show delayed seroconversion. Microscopy can provide a rapid initial look but often lacks the sensitivity and specificity needed for definitive identification, potentially missing infections or leading to misdiagnosis. These delays and limitations can significantly impact patient prognosis.



Don't wait. Rapid diagnosis can make a difference. Empowering Clinical Decisions with Fast, Reliable Fungal Identification.

Treat IFDs Faster, Reduce Mortality.

Dimorphic Assays	Order Code(s)	Turnaround Time	Specimen Types	Available Sample Types	Days Performed	Assay Range
Blastomyces qPCR (B. dermatitidis & B. gilchristii)	33469 - Lower Respiratory 33521 - CSF	<24 hours from sample receipt	Lower Respiratory - 5 mL (0.5 mL)* CSF - 2 mL (0.5 mL)	BAL, Sputum, CSF	Mon - Sat	Lower Respiratory - 250 copies/mL to 1.25E+09 copies/mL CSF - 250 copies/mL to 1.25E+09 copies/mL
Coccidioides qPCR (C. immitis & C. posadasii)	33470 - Lower Respiratory 33523 - CSF	<24 hours from sample receipt	Lower Respiratory - 5 mL (0.5 mL)* CSF - 2 mL (0.5 mL)	BAL, Sputum, CSF	Mon - Sat	Lower Respiratory - 250 copies/mL to 1.25E+09 copies/mL CSF - 250 copies/mL to 1.25E+09 copies/mL
Cryptococcus qPCR (Speciating C. gattii &/or C. neoformans)	33471 - Lower Respiratory 33524 - CSF	<24 hours from sample receipt	Lower Respiratory - 5 mL (0.5 mL)* CSF - 2 mL (0.5 mL)	BAL, Sputum, CSF	Mon - Sat	Lower Respiratory - Assay Range for C. neoformans is 250 copies/mL to 1.25E+09 copies/mL Assay Range for C. gattii is 400 copies/mL to 1.25E+09 copies/mL CSF - Assay Range for C. neoformans is 276 copies/mL to 1.25E+09 copies/mL Assay Range for C. gattii is 250 copies/mL to 1.25E+09 copies/mL
Histoplasma qPCR (H. capsulatum)	33468 - Lower Respiratory 33519 - CSF	<24 hours from sample receipt	Lower Respiratory - 5 mL (0.5 mL)* CSF - 2 mL (0.5 mL)	BAL, Sputum, CSF	Mon - Sat	Lower Respiratory - 1000 copies/mL to 1.25E+09 copies/mL CSF - 250 copies/mL to 1.25E+09 copies/mL

*If reflex NGS testing is being considered please submit at least 5 mL of BAL.

Anti-Fungal TDM	Order Code(s)	Turnaround Time	Assay Range	Available Sample Types	Days Performed	Platform	Viracor Advantage
Isavuconazole (CRE-SEMBA®)	4901 - Plasma 4910 - Serum	8-12 hours from receipt of specimen (same day)	0.1-10 mcg/mL	Plasma, Serum	Mon - Sat	LC-MS/MS	NY State Approved
Itraconazole	2801 - Plasma 2810 - Serum	8-12 hours from receipt of specimen (same day)	0.1-10 mcg/mL	Plasma, Serum	Mon - Sat	LC-MS/MS	NY State Approved
Posaconazole	4210 - Serum	8-12 hours from receipt of specimen (same day)	0.1-10 mcg/mL	Plasma, Serum	Mon - Sat	LC-MS/MS	NY State Approved
Voriconazole	3301 - Plasma 3310 - Serum	8-12 hours from receipt of specimen (same day)	0.1-10 mcg/mL	Plasma, Serum	Mon - Sat	LC-MS/MS	NY State Approved

Get Fast Accurate Results

Find out more at eurofins-viracor.com
or contact us at info@eurofins-viracor.com
or call **800-305-5198**



Learn More About Dimorphic Fungals ▶



About Viracor

With over 40 years of diagnostic expertise in infectious disease, immunology and allergy testing for immunocompromised and critical patients, Eurofins Viracor is passionate about delivering accurate, timely and actionable results, never losing sight of the connection between the testing it performs and the patients it serves.

Eurofins Viracor is a subsidiary of Eurofins Scientific (EUFI.PA), a global leader in bio-analytical testing, and one of the world leaders in genomic services. For more information, please visit eurofins.com and eurofins-viracor.com