



Bio-Rad Laboratories
Improving lives with every test.

Aspergillus

Platelia® *Aspergillus* EIA

I
N
F
E
C
T
I
O
U
S
D
I
S
E
A
S
E
T
E
S
T
I
N
G

Systemic fungal infections have become more frequent over recent years. This increased incidence is due to the rising number of immunosuppressed patients. The treatment of bone marrow transplantations and malignant disease (corticosteroids, chemotherapy), represents a major cause of morbidity and mortality. Invasive Aspergillosis constitutes one of the most serious infections in immunosuppressed patients.

The development of new tests has improved the diagnosis of these diseases. The patient's survival depends on early diagnosis and rapid introduction of appropriate antifungal therapy.

The Bio-Rad Laboratories Platelia® *Aspergillus* EIA is a one-stage immunoenzymatic sandwich microplate assay that uses rat monoclonal antibody EBA-2 to detect circulating galactomannan antigen in serum.

Results can be obtained in 3 hours.

Convenient

- Standardized reagents
- Rapid 3-hour turnaround time

Objective

- Microplate format
- Results reported as index values

Simple

- 96-test kit
- EIA format

Direct Antigen Detection

- Detects *Aspergillus* galactomannan antigen in serum

BIO-RAD



Aspergillus Enzyme Immunoassay

The Platelia® *Aspergillus* EIA is an immunoenzymatic sandwich microplate assay for the detection of *Aspergillus* galactomannan antigen in serum.

Principle of the Procedure

The Platelia® *Aspergillus* EIA is a one-stage immunoenzymatic sandwich microplate assay, which detects galactomannan in human serum. The assay uses the rat monoclonal antibody EBA-2, which is directed against *Aspergillus* galactomannan, and has been characterized in previous studies. The monoclonal antibody is used: to coat the wells of the microplate and bind the antigen; and as the detector antibody in the conjugate reagent (peroxidase-linked monoclonal antibody).

Serum samples are heat-treated in the presence of EDTA in order to dissociate immune-complexes and to precipitate serum proteins that could possibly interfere with the test. The treated serum samples and conjugate are added to the wells coated with monoclonal antibody, and incubated. A monoclonal antibody-galactomannan-monoclonal antibody/peroxidase complex is formed in the presence of *Aspergillus* antigen. The strips are washed to remove any unbound material. Next, the substrate solution is added, which will react with the complexes bound to the well to form a blue color reaction. The enzyme reaction is stopped by the addition of acid, which changes the blue color to yellow. The optical absorbance of specimens and controls is determined with a spectrophotometer set at 450 and 620/630 nm wavelength.

Ordering Information

Catalog No.	Description	
62793	Bio-Rad Platelia® <i>Aspergillus</i> EIA.....	96 tests
62792	<i>Aspergillus</i> Serum Proficiency Panel	6 member panel
25156	<i>Aspergillus</i> Start-Up Package, includes: proficiency panel, microplate assay testing reference manual, material safety data sheet, quick reference guide	1 package



**Bio-Rad
Laboratories**

For further information, please contact the Bio-Rad office nearest you or visit our website at www.bio-rad.com.

Clinical
Diagnostics Group

Website www.bio-rad.com U.S. 1-800-2-BIO-RAD Australia 61-2-9914-2800 Austria 43-1-877-8901 Belgium 32-9-385-5511 Brazil 5521-2507-6191 Canada 1-514-334-4372 Czech Republic 420-2-41430532 China 86-21-63052255 Denmark 45-4452-1000 Finland 358-9-804-22-00 France 33-1-4795-6000 Germany 49-89-31884-0 Hong Kong 852-2789-3300 India 91-124-6398112 Israel 972-3-9514127 Italy 39-02-216091 Japan 81-3-5811-6290 Korea 82-2-3473-4460 Latin America 305-894-5950 Mexico 5255-5534-2552 The Netherlands 31-318-540666 New Zealand 64-9-415-2280 Norway 47-23-38-41-30 Poland 48-22-331-99-99 Portugal 351-21-472-7700 Russia 7-095-721-14-00 Singapore 65-6415-3188 South Africa 27-11-442-85-08 Spain 34-91-590-5200 Sweden 46-8-555-127-00 Switzerland 41-61-717-95-55 Thailand 662-651-8311 United Kingdom 44-208-328-2000