

## 10th Advances Against Aspergillosis and Mucormycosis

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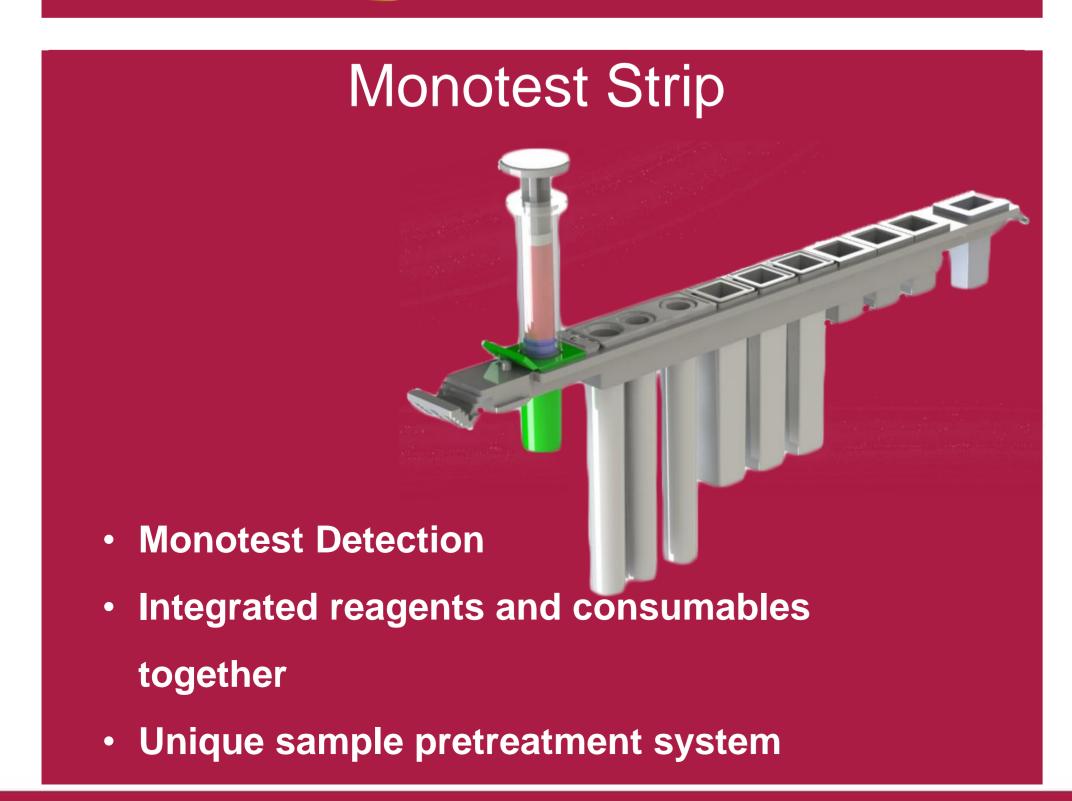




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# FACIS-I Fully automatic, great leap from 3h to 40min. **Early** Rapid Dynamic Quantitative Fully Automatic



#### 1. BACKGROUND

Aspergillus galactomannan (GM) is a widely recognized biomarker for the diagnosis of IA, and PlateliaTM EIA (Bio-Rad) was the routinely-used method. However, it is a technology that requires batching and makes it very difficult to be used with individual samples as a single-test. A new quantitative test-FungiXpert® Aspergillus monotest Galactomannan Detection Kit with the chemiluminescence (CLIA), developed immunoassay by Genobio Pharmaceuticals Co., Ltd., could improve some of the limitations of Platelia. Here, a comparison was made between Platelia and FungiXpert performed simultaneously in serum and Broncho Alveolar Lavage (BAL).

#### 2. MATERIAL & METHODS

A total of 276 retrospective and prospective samples were simultaneously tested with Platelia and FungiXpert. Among the 276 cases, 106 collected retrospectively (20 from the control group, 96 from patients meeting the IA criteria), and the remaining 170 from Daily request.

#### 3. RESULTS

Overall, the results were concordant in 251 of the 276 samples (90.58%) of the patients and 25/276 (9.06%) were discordant.

### 4. ANALYSIS OF THE INCOSISTENT RESULTS

in the Diagnosis of Invasive Aspergillus

Among the 25 discordant cases 16 had IA and the remaining 9 did not. Platelia was positive in only 3 of 16 IA cases while FungiXpert detected 14. Of the 9 cases without IA, Platelia was negative in 8 and FungiXpert in 1.

Genobio		Clinical Result		
		Positive	Negative	Total
FungiXpert®	Positive	14	8	22
	Negative	2	1	3
Total		16	9	25

Bio-Rad		Clinical Result		
		Positive	Negative	Total
Platelia	Positive	3	1	4
	Negative	13	8	21
Total		16	9	25

#### 5. CONCLUSION

Both tests showed concordant results in more than 90% of the cases. In particular, FungiXpert can quickly detect and obtain quantitative test results within 40 minutes, which is more convenient for rapid detection of GM, and is more sensitive to the detection of IA cases when the results are inconsistent.