

Performance figures

Pathogen	Reference method	Sensitivity	Specificity	N
Respiratory syncytial virus	DELFI A	100 %	100 %	94
Adenovirus	DELFI A	92 %	100 %	95
Influenza A virus	DELFI A	100 %	100 %	102
Influenza B virus	DELFI A	Similar 10 ng virus/ml	No cross-reactions	NA
Human metapneumovirus	Biotrin ELISA	250 ng antigen/L	100 %	43
Parainfluenza virus 1	DELFI A	Similar	100 %	55
Parainfluenza virus 2	DELFI A	Based on sample dilution studies	99 %	55
Parainfluenza virus 3	DELFI A	Similar	100 %	55
<i>Streptococcus pneumoniae</i>	Binax Now! lateral flow	200 CFU/ml 10 ng antigen/L	No cross-reactions	NA
Group A streptococci	Culture, lateral flow	> 100 %	100 %	427

A New Microvolume Technique for Bioaffinity Assays Using Two-Photon Excitation. Hänninen P, Soini A, Meltola N, Soini J, Soukka J, Soini E. *Nat Biotechnol.* 2000;18(5):548-50.

Rapid Method for Detection of Influenza A and B Virus Antigens by use of a Two-Photon Excitation Assay Technique and Dry-Chemistry Reagents. Koskinen JO et al. *J Clin Microb.* 2001;45:3581-3588.

Rapid Multianalyte POC Test to Aid Physicians in Pathogen-Specific Diagnosis of Respiratory Infections. Koskinen JO, et al. 25th Annual SSAC Meeting 2008, Copenhagen, Denmark. Oral presentation and abstract.

Rapid Multianalyte Identification of Respiratory Tract Pathogens. Koskinen JO, et al. 26th Annual ESPID Meeting 2008, Graz, Austria. Oral poster-walk presentation and abstract.

A new Rapid Method for Multianalyte POC Testing of Respiratory Tract Infections. Koskinen JO, et al. Annual meeting and congress (2008) of the ESCV, Saariselkä, Finland, Oral presentation and abstract.

Novel Multianalyte Point-of-Care Test for Pathogen-Specific Diagnosing of Respiratory Infections. Koskinen JO, et al. 19th ECCMID 2009, Helsinki, Finland. Poster and abstract.

Simple and Rapid High-Throughput Antigen Test for High-Sensitivity Detection of Swine Influenza Virus. Koskinen JO, et al. 20th ECCMID 2010, Vienna, Austria. Poster and abstract.

Highly Sensitive Multianalyte Antigen Test for Pharyngitis. Koskinen JO, et al. 27th SSAC Annual Meeting 2010, Stockholm, Sweden. Oral presentation and abstract.

maripOC® / PCR	PCR	PCR		
	-	+		
Herkkyys 92 %	0	23	+	maripOC®
Spesifisyys 100 %	25	1	-	maripOC®

maripOC RSV test was compared to PCR in 57 samples obtained during season 2010. According to the results, maripOC provides excellent performance also compared to PCR (table). The samples were from small children enrolling in a study of an infectious diseases research unit in Finland. The observed high sensitivity for the antigen test is explained by careful and early sampling after the onset of the symptoms, and the high viral loads typical for RSV infections in young patients. This result emphasizes the importance of proper sampling and rapid testing. It also demonstrates that maripOC can provide laboratory level performance at the point-of-care.



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