maripoc

The true solution for diagnostics of acute infections

Technology

The true solution is

- HiTech antigen test
- Automated and easy to use
- Laboratory quality at point of care

mariPOC® utilizes TPX (Two-Photon Excitation) assay technique for highly sensitive and extremely specific antigen detection. The technology is proprietary to ArcDia International Ltd., the developer and manufacturer of mariPOC® from Finland.

High sensitivity

mariPOC® offers the best antigen detection sensitivity at the point of care.

Superior specificity is the unique feature of the mariPOC® technique. It results from the use of the sandwich immunoassay principle. mariPOC® test result is not interfered by nonspecific binding.

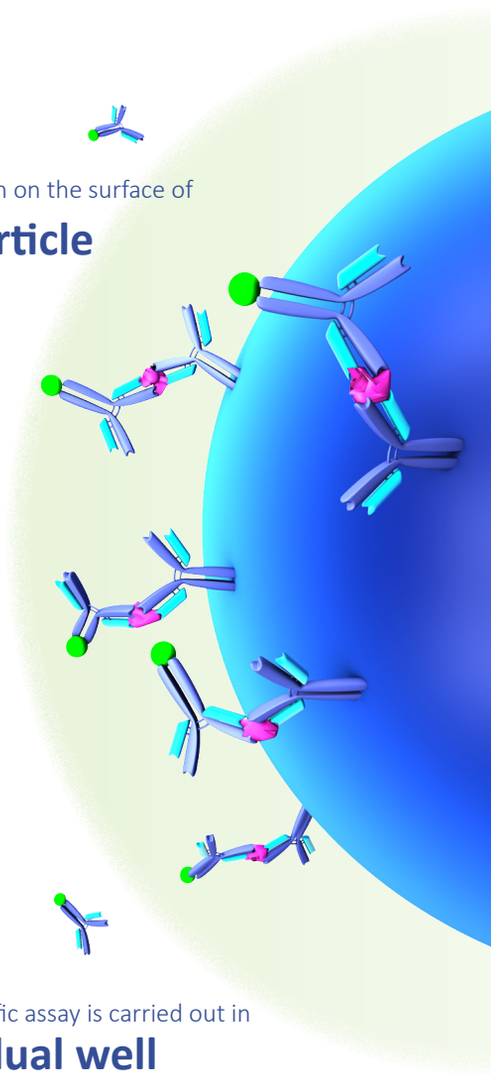
mariPOC® is unique

Specificity is further improved by the use of 3 µm polystyrene microparticles as the reaction solid phase. Fluorescense of individual microparticles is measured one at the time with laser. Also the fluorescence signal of the surrounding matrix is recorded. Finally a clever data reduction algorithm returns the quantitative test result.

The TPX-technology brings antigen testing to the 3D level. The unique technology provides ease of use, efficiency and accuracy. mariPOC® detection is automated and separation-free. It is applicable for various sample materials.

Reference: A New Microvolume Technique for Bioaffinity Assays Using Two-Photon Excitation. Hänninen et al. Nat Biotechnol. 2000;18(5):548–50.

More information: www.maripoc.com



ArcDia made in Finland IVD CE

Performance

Laboratory Quality at the Point of Care

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mariPOC® compared to	Sample type	Sensitivity	Specificity	N
TR-FIA				
Influenza A virus	swab/aspirate	100 %	100 %	102
Influenza B virus	swab/aspirate	~100 % *	~100 %**	NA
Respiratory syncytial virus	swab/aspirate	100 %	100 %	94
Parainfluenza 1 virus	swab/aspirate	~100 % *	100 %	55
Parainfluenza 2 virus	swab/aspirate	~100 % *	99.0 %	55
Parainfluenza 3 virus	swab/aspirate	~100 % *	100 %	95
Adenovirus	swab/aspirate	92 %	100 %	95
ELISA				
Human metapneumovirus	swab	~100 % *	100 %	43
DFA				
Influenza A virus	aspirate	86 %	100 %	241
Respiratory syncytial virus	aspirate	90 %	99.5 %	241
Lateral flow				
Influenza A virus	wash	100 %	100 %	104
Influenza B virus	wash	100 %	100 %	104
Streptococcus pneumoniae	NA	~100 %*	~100 %**	NA
Viral culture				
Parainfluenza 3 virus	wash	100 %	100 %	192
Adenovirus	wash	100 %	99.5 %	192
PCR				
Influenza A virus	aspirate/wash	92 %	100 %	192
Influenza B virus	aspirate/wash	88 %	100 %	192
Respiratory syncytial virus	swab	89 %	100 %	158
Human metapneumovirus	aspirate/wash	78 %	100 %	74
Bacterial culture				
Group A streptococci	swab	~150 %	~100 % **	219

*) Sensitivity proved to be similar to comparison method using dilution series from positive samples
**) No cross-reactions with other respiratory pathogens or commensal flora detected

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