

CE-IVD Marked

 Allplex™

GI-Helminth(I) Assay

Simultaneous detection and identification of
9 parasitic gastrointestinal pathogens using multiplex real-time PCR

World's 1st technology

Individual Ct value of multiple analyte in a single channel



HIGH SENSITIVITY & SPECIFICITY

Multiplex real-time PCR with high sensitivity and specificity by
utilization of DPO™ and TOCE™ technologies

 **Seegene**



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9 parasitic gastrointestinal pathogens using multiplex real-time PCR

Gastroenteritis patients show similar signs and symptoms. Gastroenteritis can be caused by wide range of bacterial, viral, and/or parasitic pathogens. Parasitic infections caused by protozoa and helminths are responsible for substantial morbidity and mortality worldwide.

The current screening method, microscopy, is laborious, to error-prone and it requires substantial expertise. Detection of suspected pathogens by microscopy may require several courses and stains.

Allplex™ GI-Helminth(I) Assay allows detection of 1 protozoa and 8 helminths which are highly pathogenic parasites. Based on Seegene's proprietary MuDT™ technology, this assay reports multiple Ct values of each pathogen in a single channel using real-time PCR instruments.

Key features

- Full range of common intestinal parasites
- Short TAT (4 hours) from extraction to the final results
- User-friendly procedure
- Improved patients management and targeted therapy
- Automated data interpretation with Seegene Viewer

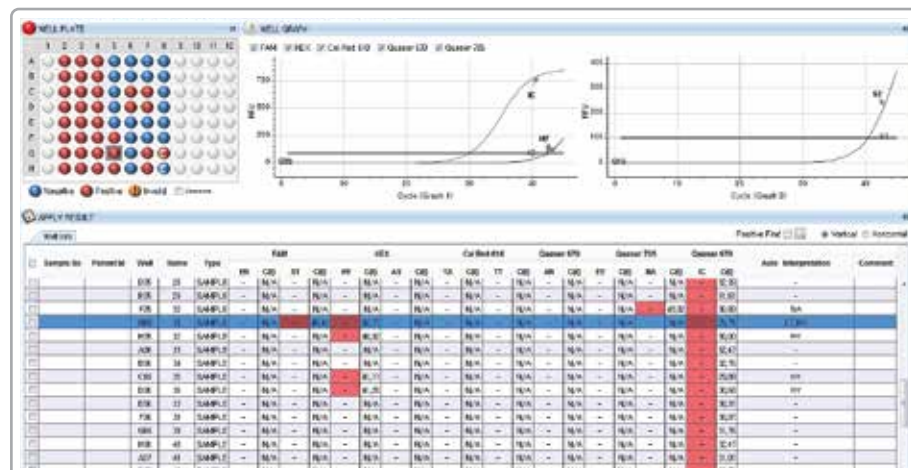
Analytes

1 tube

Helminth(I)

- *Strongyloides* spp. (ST)
- *Necator americanus* (NA)
- *Ancylostoma* spp. (AN)
- *Ascaris* spp. (AS)
- *Trichuris trichiura* (TT)
- *Enterobius vermicularis* (EV)
- *Hymenolepis* spp. (HY)
- *Taenia* spp. (TA)
- *Enterocytozoon* spp. /
Encephalitozoon spp. (EN)
- Internal Control (IC)

Result of Allplex™ GI-Helminth(I) Assay

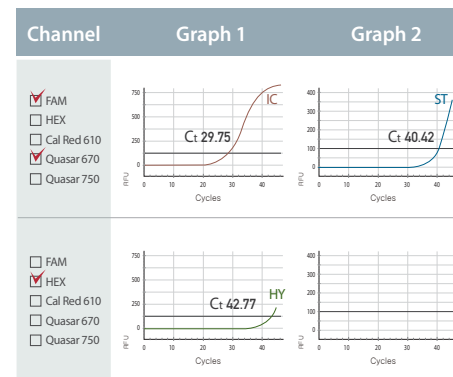


Specimen

- Stool

Compatible instrumentation (CE-IVD Marked)

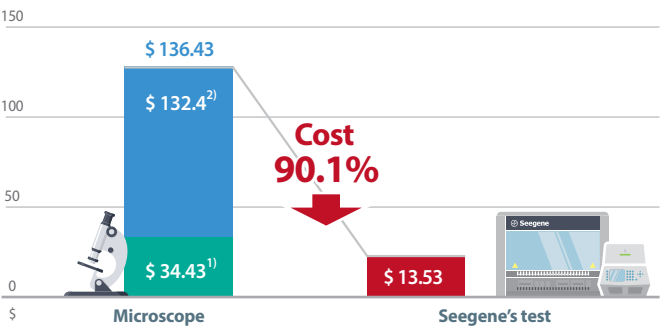
- Automated Extraction & PCR Setup :
Seegene NIMBUS, Seegene STARlet
- Automated Extraction :
NucliSENS® easyMAG® (BioMérieux)
- Real-time PCR :
CFX96™ Dx



The result represents detection of ST and HY in FAM and HEX channel with Ct values of 40.02 (Graph 2) and 42.77 (Graph 1), respectively. Allplex™ GI-Helminth(I) Assay is able to provide the individual Ct value of multiple pathogens using Seegene Viewer.

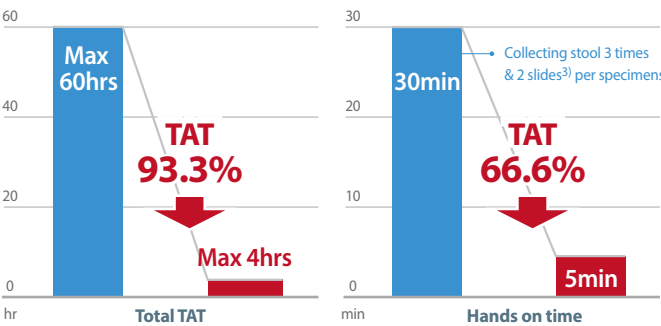
Allplex™ GI-Helminth(I) Assay can:

Reduce costs!



1) PATH. SOIL TRANSMITTED HELMINTHS: PATH; 2015.
2) Shane Byrne, Department of Microbiology and Molecular pathology, Sullivan Nicolaides Pathology
3) CDC, College of American pathologists, college of medical laboratory technologists of organization

Improve usability!

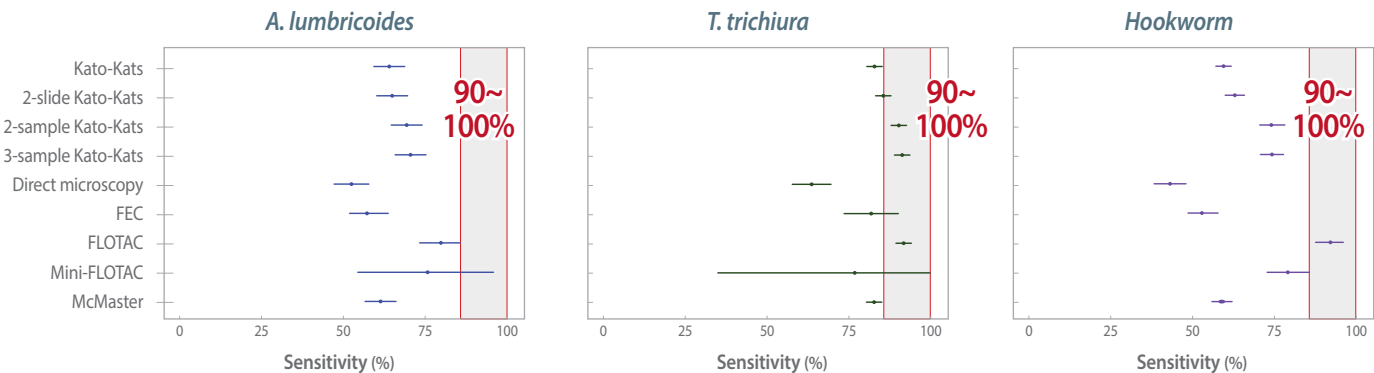


Perform targeted therapy!

	<i>Ascaris lumbricoides</i>	Hookworm	<i>Enterobius vermicularis</i>	<i>Strongyloides stercoralis</i>	<i>Trichuris trichiura</i>	<i>Hymenolepis</i> spp.	<i>Taenia</i> spp.
Mebendazole	5x	5x			5x		
Albendazole				5x			
Piperazine			2x				
Ivermectin							
Praziquantel						25x	
Pyrvinium							
Pyrantel							

There are a variety of medication for parasite infection, and there are different medicines for each pathogen.

Maximize accuracy!



Depending on the sampling method and species, the sensitivity varies widely⁴⁾.

4) B. Nikolay et al. International Journal for Parasitology (2014)



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Ordering Information

Not Available for Sale in the United States

Category	Product	Package Volume	Cat. No.
Allplex™	GI-Helminth(I) Assay	25 rxns*	GI10189Z
		50 rxns	GI10190Y
		100 rxns*	GI10191X

* For use with NIMBUS IVD and STARlet IVD only

Instrument	Type	Cat. No.
CFX96™ Dx	Real-time PCR _ Optical Reaction Module	1845097-IVD
	Real-time PCR _ Thermal Cycler	1841000-IVD
Seegene NIMBUS	Automated extraction & PCR Setup	65415-03
Seegene STARlet	Automated extraction & PCR Setup	67930-03
STARMag 96 X 4 Universal Cartridge kit	Nucleic acids extraction reagent	744300.4.UC384



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