FilmArray[®] BioThreat Panel



Information Sheet

1 Test. 16 BioThreat Pathogens/26 Targets. All in about an hour.

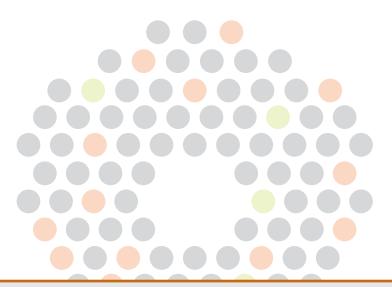






- Bacillus anthracis, 3 Targets
- Brucella species, 2 Targets
- Burkholderia mallei / pseudomallei
- Botulinum toxin gene
- Coxiella burnetii, 2 Targets
- Ebola virus
- EEE virus
- Francisella tularensis, 2 Targets
- Marburg virus, 2 Targets
- Ricin toxin gene
- Rickettsia, 2 Targets

- Variola virus
- VEE virus, 2 Targets
- WEE virus
- Yersinia pestis, 2 Targets
- Orthopox genus viruses, 2 Targets



26 Comprehensive BioThreat Detection

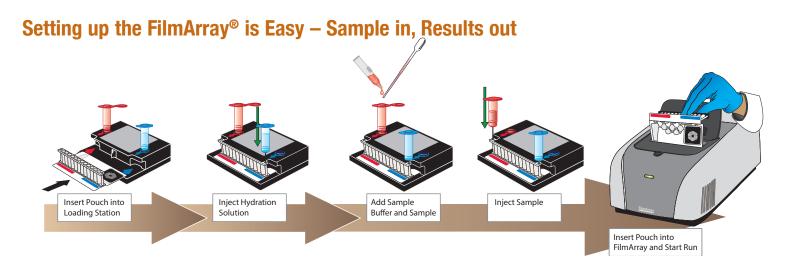
- **Multi-Use:** Used for BioThreat Detection and Pandemic BioSurveillance.
- Easy-to-Use: 2 minutes of hands-on time.
- Fully Automated: Sample prep, amplification, identification, and reporting.
- Single Instrument Integration: Minimal equipment and consumables.
- Freeze-dried Reagents: Room temperature stable.
- More Sample Types: Integerated sample prep removes PCR inhibitors and allows BioThreat detection in challenging environmental sample types.



If you are interested in a free, no obligation demonstration of the FilmArray in your lab visit www.BioFireDefense.com or call 1-801-266-3592







Fully Automated Operation

The FilmArray pouch contains all the required reagents for sample preparation, reverse transcription-PCR, PCR, and detection in a freeze-dried, room temperature stable format. Prior to a run, the operator injects hydration solution and the unknown sample into the pouch. The FilmArray instrument does the rest.

First, the FilmArray extracts and purifies all nucleic acids from the unknown sample. Next, the FilmArray performs a nested multiplex PCR. During the first-stage PCR, the FilmArray performs a single, large volume, massively multiplexed reaction. Last, individual singleplex second-stage PCR reactions detect the products from the first stage PCR.

Using endpoint melting curve data, the FilmArray software automatically generates a result for each target.

Bio	Arra Th	^{ay®} reat Panel		BIO 👙 FIR
				www.BioFireDx.com
Run Summary				
Sample ID:	BT Ve	er DFU/PBS test concentration	Run Date:	11 Dec 2012 2:28 PM
Detected:		us anthracis alla melitensis	Controls:	Passed
Equivocal:	None			
Result Summa	iry			
 Detected 	-	Bacillus anthracis		
 Detected 		Brucella melitensis		
Not Detecte	d	Burkholderia mallei/pseudo	mallei	
Not Detecte	d	Clostridium botulinum		
Not Detecte	d	Coxiella burnetii		
Not Detecte	d	Francisella tularensis		
Not Detecte	d	Ricinus communis		
Not Detecte	d	Rickettsia prowazekii		
Not Detecte	d	Yersinia pestis		
Not Detecte	d	Ebola Zaire		
Not Detecte	d	Marburg virus		
Not Detecte	d	Orthopox genus virus		
Not Detecte	d	Variola virus		
Not Detecte	d	EEE virus		
Not Detecte	d	VEE virus		
Not Detecte	d	WEE virus		
Run Details				
Po	ouch:	BioThreat Panel v2.4	Protoco	bl: BT PBS v2.0
Run St	atus:	Completed	Operato	r: Garrison Alger (garrison)
Seria	I No.:	00257302	Instrumer	nt: ITI FA "FA1113"
Lo	t No.:	120730B		

Ordering Information

Catalog No.	Description			
FLM1-ASY-0108	FilmArray BioSurveillance System – US Config.			
FLM1-ASY-0109	FilmArray BioSurveillance System – EURO Config.			
FLM1-ASY-0110	FilmArray BioSurveillance System – UK Config.			
FLM1-ASY-0111	FilmArray BioSurveillance System – AUS Config.			
RFIT-ASY-0094	BioThreat Pouch Kit			
*Contact us about our FDA cleared panels				

System Specifications

Sample Handling

- Sample Types: Swab, liquid, culture, powder
- Sample Volume: 250 µL

Reagents

- Freeze-dried in durable plastic pouches
- Room temperature storage

Instrument Specifications

- Weight: 9 kg (20 lbs)
- Size: 25.4 x 39.3 x 16.5 cm (10 x 15.5 x 6.5 in.)

Power Requirements

• 90-264 VAC, 10 A

Performance Parameters

- Hands on time: Approx. 2 minutes
- Run turn-around time: Approx.1 hour

Environmental Specification

- Operating: 15 °C to 30 °C at 20 to 80% humidity
- Storage: -30 °C to 65 °C

Desktop Software (Pre-loaded on supplied laptop)

- Windows-based instrument control and data analysis software
- Barcode reader for data input
- Automated qualitative analysis and reporting
- Separate advanced analysis software

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FilmArray Blood Culture Identification Panel

1 Test. 27 Targets. All in about an hour.



Gram-Positive Bacteria

Enterococcus Listeria monocytogenes **Staphylococcus** Staphylococcus aureus **Streptococcus** Streptococcus agalactiae Streptococcus pyogenes Streptococcus pneumoniae



Acinetobacter baumannii Haemophilus influenzae Neisseria meningitidis Pseudomonas aeruginosa **Enterobacteriaceae** Enterobacter cloacae complex Escherichia coli Klebsiella oxytoca Klebsiella pneumoniae Proteus Serratia marcescens



Candida albicans Candida glabrata Candida krusei Candida parapsilosis Candida tropicalis



mecA - methicillin resistant *vanA/B* - vancomycin resistant KPC - carbapenem resistant



Identify Pathogens from Positive Blood Cultures in About 1 Hour

For In-vitro Diagnostic Use FDA Cleared | CE IVD Marked

The FilmArray Blood Culture Identification Panel (BCID) tests for a comprehensive list of 24 pathogens and 3 antibiotic resistance genes associated with bloodstream infections. With just one test you can identify pathogens in 9 out of 10 positive blood cultures in about an hour with only 2 minutes of hands-on time.

- Simple: 2 minutes of hands-on time
- Easy: No precise measuring or pipetting required
- Fast: Turnaround time of about 1 hour
- Comprehensive: 27 target BCID panel

If you are interested in a free, no obligation demonstration of the FilmArray in your laboratory visit <u>www.biofiredx.com</u> or call 1-800-735-6544.





Panel Specifications					
Sample Handling	Performance Parameters				
Sample Type: Positive Blood Culture	Hands-on time: 2 minutes				
Sample Volume: 200 μL	Run turnaround time: about 1 hour				

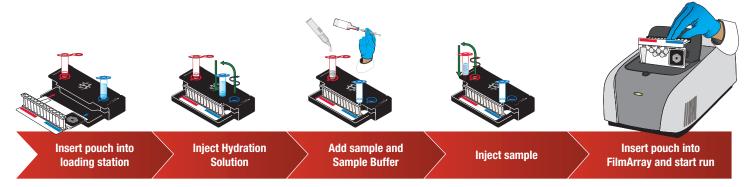
How Does the FilmArray Work?

The FilmArray reagent pouch stores all the necessary reagents for sample preparation, PCR and detection in a freeze-dried format. Prior to a run, the user injects Hydration Solution and positive blood culture sample combined with Sample Buffer into the pouch. The FilmArray instrument does the rest.

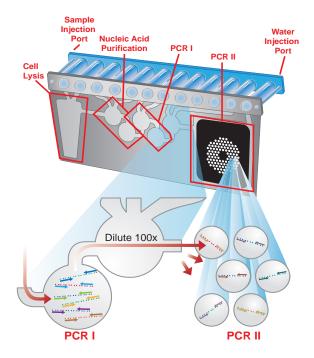
First, the FilmArray extracts and purifies all nucleic acids from the sample. Next, the FilmArray performs a nested multiplex PCR. During the first-stage PCR, the FilmArray performs a single, large volume, massively multiplexed reaction. Last, individual single-plex second-stage PCR reactions detect the products from the first stage PCR.

Using endpoint melting curve data, the FilmArray software automatically generates a result for each target in a single report.

Setting up the FilmArray is Easy – Sample in, Results out



The FilmArray Pouch and Analysis Report



ECII	rray® D Pane∣			В	10 Ş fir
					www.BioFireDx.com
Run Summary					
	Sample ID:	SDY_9621_LED_50_6	R	un Date:	29 May 2013
					3:41 PM
Organism	s Detected:	Enterobacteriaceae	(Controls:	Passed
		Klebsiella pneumoniae			
Anniliantia An		KBC Detected			
	nce Genes:	KPC - Detected			
Result Summary		41			
Result Summary	/ - Interpreta	Antimicrobial Resistance	Genee		
Detected	K	PC (carbapenem-resistance gene)	Genea		
N/A		ecA (methicillin-resistance gene)			
S N/A		nA/B (vancomycin-resistance genes)			
A NOTE: Antimicrob	ial resistance ca	n occur via multiple mechanisms. A Not Detected	result for the FilmArray a	ntimicrobial r	esistance gene assays
does not indicate	antimicrobial sus	ceptibility. Subculturing is required for species ider		ty testing of	isolates.
		Gram Positive Bacte	ria		
Not Detected		terococcus			
Not Detected		steria monocytogenes			
Not Detected	St	aphylococcus			
Not Detected	Staphylococcus aureus				
Not Detected Not Detected	SI	reptococcus			
Not Detected	Streptococcus agalactiae (Group B)				
Not Detected	Streptococcus pneumoniae Streptococcus pyogenes (Group A)				
NOL Delected		Gram Negative Bacte	ria		
Not Detected	A	cinetobacter baumannii	ind .		
✓ Detected		nterobacteriaceae			
Not Detected		Enterobacter cloacae complex			
Not Detected		Escherichia coli			
Not Detected		Klebsiella oxytoca			
Detected		Klebsiella pneumoniae			
Not Detected		Proteus			
Not Detected		Serratia marcescens			
Not Detected	Ha	aemophilus influenzae			
Not Detected	Ne	eisseria meningitidis			
Not Detected	Ps	seudomonas aeruginosa			
		Yeast			
Not Detected		andida albicans			
Not Detected		andida glabrata			
Not Detected		andida krusei			
Not Detected		andida parapsilosis			
Not Detected	Ci	andida tropicalis			
Run Details					
Pouch:	BCID Panel		Protocol:	BCID	
Run Status:			Operator:		
Serial No.:			Instrument:	FA2075	
	125313				

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FLM1-PRT-0069-04

FilmArray[™] Gastrointestinal Panel

1 Test. 22 Targets. All in about an hour.



Bacteria

Campylobacter (jejuni, coli and
upsaliensis)Cryptosport
Cyclospora
Entamoeba
Giardia lamClostridium difficile (toxin A/B)Entamoeba
Giardia lamPlesiomonas shigelloidesGiardia lamSalmonellaGiardia lamYersinia enterocoliticaVibrio (parahaemolyticus, vulnificus and cholerae)
Vibrio choleraeDiarrheagenic E. coli/ShigellaEnteroaggregative E. coli (EAEC)Enteropathogenic E. coli (EPEC)Enterotoxigenic E. coli (ETEC) lt/stShiga-like toxin-producing E. coli (STEC) stx1/stx2
E. coli O157

Shigella/Enteroinvasive E. coli (EIEC)

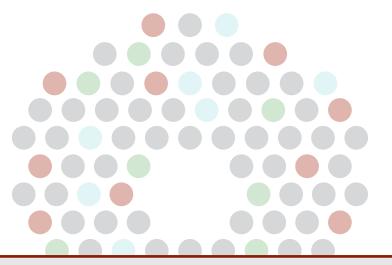


Cryptosporidium Cyclospora cayetanensis Entamoeba histolytica Giardia lamblia

Parasites



Adenovirus F 40/41 Astrovirus Norovirus GI/GII Rotavirus A Sapovirus (I, II, IV and V)





Comprehensive Panel of 22 Targets

The FilmArray Gastrointestinal (GI) Panel tests for common gastrointestinal pathogens including viruses, bacteria and parasites that cause infectious diarrhea. The integrated FilmArray system brings sample to results in about an hour, with only 2 minutes of hands-on time.

- Simple: 2 minutes of hands-on time
- Easy: No precise measuring or pipetting required
- Fast: Turnaround time of about 1 hour
- Comprehensive: 22 target GI panel

If you are interested in a free, no obligation demonstration of the FilmArray in your laboratory visit <u>www.filmarray.com</u> or call 1-800-735-6544.





For In-vitro Diagnostic Use FDA-cleared

Panel Specifications				
Sample Handling	Performance Parameters			
Sample Type: Stool in Cary Blair	Hands-on time: Approx. 2 minutes			
Sample Volume: 200 μL	Run turnaround time: About 1 hour			

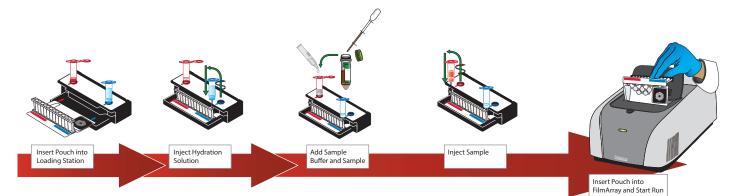
How Does the FilmArray Work?

The FilmArray reagent pouch stores all the necessary reagents for sample preparation, reverse transcription, PCR and detection in a freeze-dried format. Sample is collected in Cary Blair transport media. Prior to a run, the user injects hydration solution and sample combined with sample buffer mix into the pouch. The FilmArray instrument does the rest.

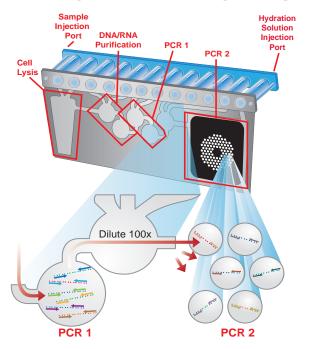
First, the FilmArray extracts and purifies all nucleic acids from the sample. Next, the FilmArray performs a nested multiplex PCR. During the first-stage PCR, the FilmArray performs a single, large volume, massively multiplexed reaction. Last, individual single-plex second-stage PCR reactions detect the products from the first stage PCR.

Using endpoint melting curve data, the FilmArray software automatically generates a result for each target in a single report.

Setting up the FilmArray is Easy – Sample in, Results out



The FilmArray Pouch and Analysis Report



GI P	anei		0	10 Ş fir
				www.BioFireDx.com
Run Summary				
Sample ID:	009196-03-0790	27 Sep 2013 12:03 PM		
Detected:	Clostridium difficile toxin A/B	c	ontrols:	
Result Summary	/			
	Bacteria			
Not Detected	Campylobacter			
 Detected 	Clostridium difficile toxin A/B			
Not Detected	Plesiomonas shigelloides			
Not Detected	Salmonella			
Not Detected	Vibrio			
Not Detected	Vibrio cholerae			
Not Detected	Yersinia enterocolitica			
	Diarrheagenic E. coli/Shi	gella		
Not Detected	Enteroaggregative E. coli (EAEC)			
Not Detected	Enteropathogenic E. coli (EPEC)			
Not Detected	Enterotoxigenic E. coli (ETEC) lt/st			
Not Detected	Shiga-like toxin-producing E. coli (STEC) stx1/stx2			
Q N/A	E. coli O157			
Not Detected	Shigella/Enteroinvasive E. coli (EIEC)			
	Parasites			
Not Detected	Cryptosporidium			
Not Detected	Cyclospora cayetanensis			
Not Detected	Entamoeba histolytica			
Not Detected	Giardia lamblia			
	Viruses			
Not Detected	Adenovirus F 40/41			
Not Detected	Astrovirus			
Not Detected	Norovirus GI/GII			
Not Detected	Rotavirus A			
Not Detected	Sapovirus			
Run Details				
Pouch:	GI Panel v2.1	Protocol:		
Run Status:		Operator:		
Serial No.:	00788640 Instrument: ITI FA "FA1315"			

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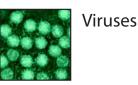
FilmArray[®] Meningitis/Encephalitis Panel

1 Test. 14 Targets. All in about an hour.



Bacteria

Escherichia coli K1 Haemophilus influenzae Listeria monocytogenes Neisseria meningitidis Streptococcus agalactiae Streptococcus pneumoniae



Cytomegalovirus (CMV) Enterovirus Herpes simplex virus 1 (HSV-1) Herpes simplex virus 2 (HSV-2) Human herpesvirus 6 (HHV-6) Human parechovirus Varicella zoster virus (VZV)



Cryptococcus neoformans/gattii

14 Targets

Comprehensive Panel of 14 Targets

The FilmArray Meningitis/Encephalitis (ME) Panel tests cerebrospinal fluid (CSF) for a variety of pathogens including bacteria, viruses, and fungi. The integrated FilmArray system yields sample to results in about an hour, with only 2 minutes of hands-on time.

- Simple: 2 minutes of hands-on time
- Easy: No precise measuring or pipetting required
- Fast: Turnaround time of about 1 hour
- Comprehensive: 14 bacterial, viral, and fungal targets



For In Vitro Diagnostic Use

FDA cleared and CE marked

If you are interested in a free, no obligation demonstration of the FilmArray in your laboratory visit <u>www.BioFireDX.com</u> or call 1-800-735-6544.





Panel Specifications					
Sample Requirements	Performance Parameters				
Sample Type: Cerebrospinal Fluid (CSF)	Hands-on time: Approx. 2 minutes				
 Sample Volume: 200 μL 	Run turnaround time: About 1 hour				

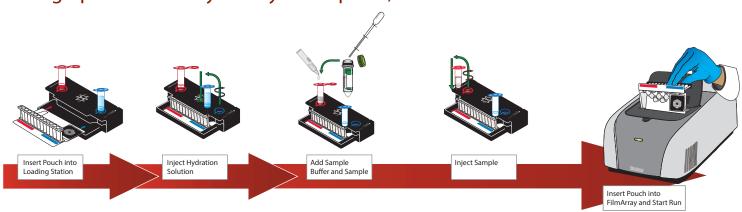
How Does the FilmArray Work?

The FilmArray reagent pouch stores all the necessary reagents for sample preparation, reverse transcription, PCR and detection in a freeze-dried format. Prior to a run, the user injects hydration solution and sample combined with sample buffer into the pouch. The FilmArray instrument does the rest.

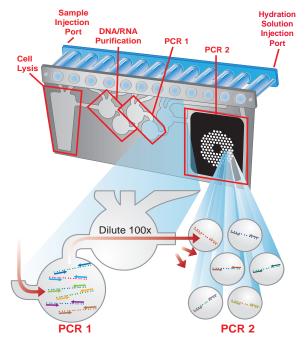
First, the FilmArray extracts and purifies all nucleic acids from the sample. Next, the FilmArray performs a nested multiplex PCR. During the first-stage PCR, the FilmArray performs a single, large volume, massively multiplexed reaction. Last, individual single-plex second-stage PCR reactions detect the products from the first stage PCR.

Using endpoint melting curve data, the FilmArray software automatically generates a result for each target in a single report.

Setting up the FilmArray is Easy – Sample in, Results out



The FilmArray Pouch and Analysis Report



		100			www.BioFiteDis.com
Run Summary	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.				
Sample ID:	14067-0295		R	un Date:	21 Jun 2015
40.000	and the second se				1:47 PM
Detected:	Human herpesvirus 6		c	ontrols:	Passed
viruses may ind	FilmArray ME panel does not distinguish icate primary infection, secondary reactive into other clinical, laboratory and epidemiol	tion, of the prase			
Result Summary	/				
		Bacteria			
Not Detected	Escherichia coli K1				
Not Detected	Haemophilus influenzae				
Not Detected	Listeria monocytogenes				
Not Detected	Neisseria meningitidis				
Not Detected	Streptococcus agalactiae				
Not Detected	Streptococcus pneumoniae				
		Viruses			
Not Detected	Cytomegalovirus				
Not Detected	Enterovirus				
Not Detected	Herpes simplex virus 1				
Not Detected	Herpes simplex virus 2				
Not Detected	Human herpesvirus 6 Human parechovirus				
Detected	Varicella zoster virus				
Detected	Varicella zoster virus				
		Yeast			
Not Detected	Cryptococcus neoformans/gattii				
Run Details					
Pouch:	ME Panel v1.4		Protocol:	CSF v2	0
Run Status:			Operator:		lunter (ah)
Serial No.:			Instrument:	ITI FA T	
Lot No.:	140411A				C 37 1 55

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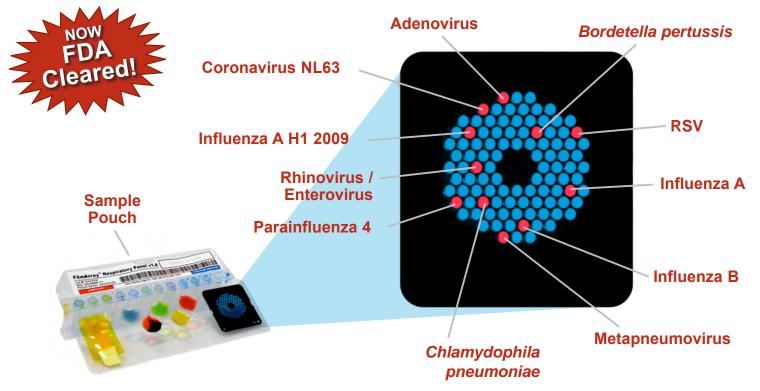


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FilmArray[®] Respiratory Panel

For In-vitro Diagnostic Use

Information Sheet



AU Targets Respiratory Pathogen Detection Made Simple

The FilmArray Respiratory Panel tests for a comprehensive panel of 20 respiratory viruses and bacteria which cause URTIs. The FilmArray instrument integrates sample preparation, amplification, detection, and analysis into one simple system that requires 2 minutes of hands on time and has a total run time of about 1 hour.

- Simple: Two minutes of hands on time
- Easy: No precise measuring or pipetting required
- Fast: Turnaround time of about 1 hour
- Comprehensive: 20 target respiratory panel

The FilmArray Respiratory Panel

Simultaneous detection of 20 targets:

Viruses

- AdenovirusCoronavirus HKU1
- Coronavirus NL63
- Coronavirus 229E
- Coronavirus OC43
- Influenza A
- Influenza A H1
- Influenza A H1
- 2009
- Influenza A H3

Bacteria

- Bordetella pertussis
- Chlamydophila pneumoniae
- Mycoplasma pneumoniae

If you are interested in a free, no obligation demonstration of the FilmArray in your laboratory visit <u>www.filmarray.com</u> or call 1-800-735-6544. FREE Demo!



Metapneumovirus Parainfluenza 1 Parainfluenza 2

- Parainfluenza 3 Parainfluenza 4
- Parainiluenza
 Respiratory

Influenza B

- Syncytial Virus
- Rhinovirus /Enterovirus

Upper Respiratory Tract Infections (URTI)

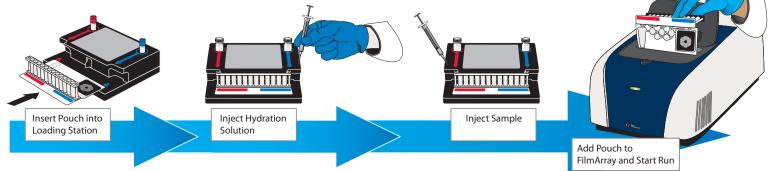
It is estimated that adults get 2-4 upper respiratory tract infections each year while children average 6-12 upper respiratory tract infections a year. The estimated economic impact of non-influenza related upper respiratory tract infections is \$40 billion annually in the US.¹

A respiratory tract infection can be the result of one of dozens of viral or bacterial pathogens. The symptoms caused by these different pathogens are nearly indistinguishable, but how a healthcare provider chooses to treat a respiratory infection may depend greatly on a rapid and accurate diagnosis of the responsible pathogen.

Unfortunately, rapidly delivering accurate results has been a challenge for traditional diagnostic methods. This potentially increases the chance that patients remain undiagnosed or misdiagnosed and may end up not receiving critical medications, or receive unnecessary antibiotics.

Rapid and accurate diagnostic testing for respiratory pathogens may aid healthcare providers in diagnosing patients, which may improve patient management, help limit the spread of disease, and reduce overall healthcare costs.

Setting up the FilmArray[®] is Easy – Sample in, Results out



Clinical Sensitivity and Specificity of the FilmArray Respiratory Pouch

Virus	Sens	Specificity	
	Prospective	Retrospective	Prospective
Adenovirus	88.9%	100%	98.3%
Coronavirus HKU1	95.8%	n/a	99.8%
Coronavirus NL63	95.8%	n/a	100%
Coronavirus 229E	100%	100%	99.80%
Coronavirus OC43	100%	100%	99.60%
Human Metapneumovirus	94.6%	n/a	99.2%
Human Rhinovirus/Enterovirus	92.7%	95.7%	94.6%
Influenza A	90.0%	n/a	99.8%
Influenza A/H1	n/a	100%	100%
Influenza A/H3	n/a	100%	100%
Influenza A/H1-2009	88.9%*	100%	99.6%
Influenza B	n/a	100%	100%
Parainfluenza Virus 1	100%*	97.1%	99.9%
Parainfluenza Virus 2	87.4%*	100%	99.8%
Parainfluenza Virus 3	95.8%	100%	98.8%
Parainfluenza Virus 4	100%*	100%	99.9%
Respiratory Syncytial Virus	100%	n/a	89.1%
Bordetella pertussis	100%*	94.6%	99.90%
Chlamydophila pneumoniae	100%*	100%†	100%
Mycoplasma pneumoniae	100%*	84.4%	100%

 Cooper RJ, Hoffman JR, Bartlett JG, et al: Principles of appropriate antibiotic use for acute pharyngitis in adults: Background. Ann Intern Med. 2001, 134: 509-517.

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[†]Spiked Chlamydophila pneumoniae samples were used to test retrospective sensitivity.

*Due to low prevalence in the prospective study, clinical sensitivity for these pathogens was based on less than 10 positive samples.