

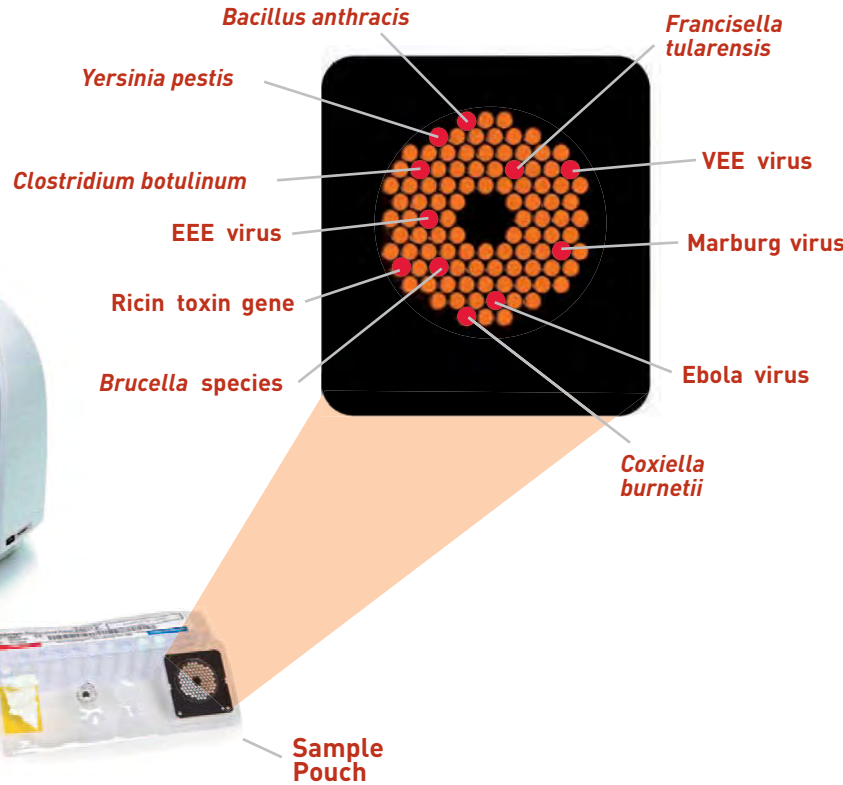
# FilmArray® BioThreat Panel



Currently in Development

## Information Sheet

FilmArray Instrument



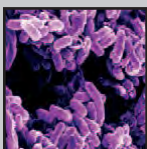
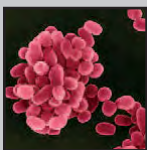
## Comprehensive BioThreat Detection

- **Multi-Use:** Used for BioThreat Detection and Pandemic BioSurveillance.
- **Easy-to-Use:** 2 minutes of hands-on time.
- **Quick Results:** Results in 1 hour.
- **Fully Automated:** Sample prep, amplification, identification, and reporting.
- **Single Instrument Integration:** Minimal equipment and consumables.
- **Freeze-dried Reagents:** Room temperature stable.
- **More BioThreat Targets:** Test 17 pathogens in one run.
- **More Sample Types:** Integrated sample prep removes PCR inhibitors and allows BioThreat detection in challenging environmental sample types.

## The FilmArray BioThreat Panel

Simultaneous detection of 27 targets/17 pathogens:

- *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
- *Staphylococcal enterotoxin gene*
- Variola virus
- VEE virus, 2 Targets
- WEE virus
- *Yersinia pestis*, 2 Targets
- Orthopox genus viruses, 2 Targets

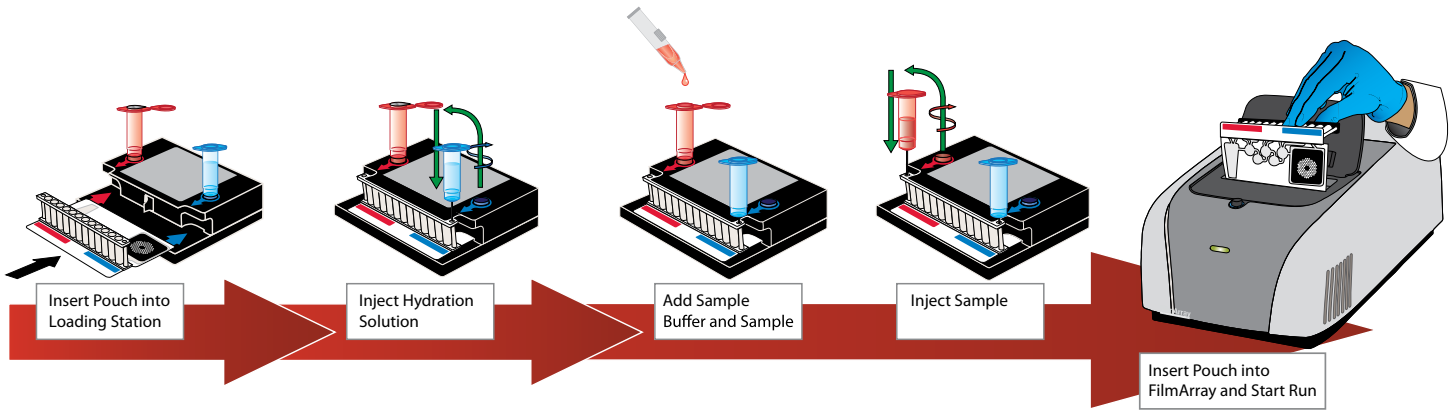


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# Setting up the FilmArray® is Easy – Sample in, Results out



## 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 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.

FilmArray® BioThreat Panel		BIOFIRE	
		www.BioFireDx.com	
<b>Run Summary</b>			
Sample ID:	BT Ver DFU/PBS test concentration	Run Date:	11 Dec 2012 2:28 PM
Detected:	<i>Bacillus anthracis</i> <i>Brucella melitensis</i>	Controls:	Passed
Equivocal:	None		
<b>Result Summary</b>			
✓ Detected	<i>Bacillus anthracis</i>		
✓ Detected	<i>Brucella melitensis</i>		
Not Detected	<i>Burkholderia mallei/pseudomallei</i>		
Not Detected	<i>Clostridium botulinum</i>		
Not Detected	<i>Coxiella burnetii</i>		
Not Detected	<i>Francisella tularensis</i>		
Not Detected	<i>Ricin</i>		
Not Detected	<i>Rickettsia prowazekii</i>		
Not Detected	<i>Staphylococcal enterotoxin gene</i>		
Not Detected	<i>Yersinia pestis</i>		
Not Detected	Ebola Zaire		
Not Detected	Marburg virus		
Not Detected	Orthopox genus virus		
Not Detected	Variola virus		
Not Detected	EEE virus		
Not Detected	VEE virus		
Not Detected	WEE virus		
<b>Run Details</b>			
Pouch:	BioThreat Panel v2.4	Protocol:	BT PBS v2.0
Run Status:	Completed	Operator:	Garrison Alger (garrison)
Serial No.:	00257302	Instrument:	ITI FA "FA1113"
Lot 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
RFIT-ASY-0107	Respiratory Pouch Kit

## 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