



## SPOTFIRE® RSP Negative Control

### INTENDED USE:

SPOTFIRE® RSP Negative Control is intended for use (as applicable) as an external negative assayed quality control to monitor performance of *in vitro* laboratory nucleic acid testing procedures for the qualitative detection of *Bordetella parapertussis*, *Bordetella pertussis*, *Chlamydia pneumoniae*, *Mycoplasma pneumoniae*, *Streptococcus dysgalactiae* (Group C/G Strep), *Streptococcus pyogenes* (Group A Strep), Adenovirus, Coronavirus SARS-CoV-2, Coronavirus (seasonal), Human Metapneumovirus, Human Rhinovirus/Enterovirus, Influenza A Subtype H1-2009, Influenza A Subtype H3, Influenza B, Parainfluenza Virus and Respiratory Syncytial Virus using the BIOFIRE® SPOTFIRE Respiratory (R) Panel, BIOFIRE SPOTFIRE Respiratory (R) Panel Mini, BIOFIRE SPOTFIRE Respiratory/Sore Throat (R/ST) Panel, and BIOFIRE SPOTFIRE Respiratory/Sore Throat (R/ST) Panel Mini on the BIOFIRE SPOTFIRE System. SPOTFIRE RSP Negative Control is designed for and intended to be used solely with the BIOFIRE SPOTFIRE R Panel, BIOFIRE SPOTFIRE R Panel Mini, BIOFIRE SPOTFIRE R/ST Panel, and BIOFIRE SPOTFIRE R/ST Panel Mini assays. SPOTFIRE RSP Negative Control is comprised of a solution of buffer and preservatives that does not contain target analytes. This product is not intended to replace manufacturer internal controls provided with these devices.

Quality control materials should be used in accordance with local, state, federal regulations, and accreditation requirements.

### PRODUCT SUMMARY and PRINCIPLE:

SPOTFIRE RSP Negative Control contains no nucleic acid and does not contain any sequence corresponding to genome segments of pathogens listed in Tables 1, 2, 3, and 4.

Quality controls can be used for routine monitoring of test systems, validation, verification, proficiency assessment, and training procedures. Routine use of quality controls assists the laboratory in identifying shifts, trends, and increased frequency of random errors caused by variations in the test system, such as failing reagents or malfunctioning equipment. Early investigation can prevent failed assay runs.

### COMPOSITION:

SPOTFIRE RSP Negative Control kit is comprised of 6 single use tubes, 300µL each, containing a non-infectious solution of buffers and preservatives. There is no DNA or RNA in the SPOTFIRE RSP Negative Control.

### PRECAUTIONS and WARNINGS:

- Do not dilute. Use the control as provided.
- This product is intended for *in vitro* diagnostic use only.
- SPOTFIRE RSP Negative Control is for use with the SPOTFIRE R Panel, SPOTFIRE R Panel Mini, SPOTFIRE R/ST Panel, or SPOTFIRE R/ST Panel Mini assays on the BIOFIRE SPOTFIRE System.
- Appearance: Negative control is clear.
- This product does not contain any biological material of human or animal origin. Universal Precautions are NOT required when handling this product.
- SPOTFIRE RSP Negative Control cannot be cloned, sold, or transferred without the explicit written consent of MMQCI.

### STORAGE and STABILITY:

SPOTFIRE RSP Negative Control will be shipped on dry ice or cold packs depending on destination and stored at room temperature (18° – 25°C) or refrigerated (2° – 8°C) upon receipt. The controls are stable through the expiration date printed on the kit label. SPOTFIRE RSP Negative Control kit components are for single use. Discard after use according to your local and federal regulations.

### INSTRUCTIONS FOR USE:

1. Allow the control to come completely to room temperature (18° – 25°C) before use, approximately 15 minutes or up to 30 minutes if frozen due to dry ice shipping.
2. Use the control as provided. **Do Not Dilute** in VTM, or in any other liquid.
3. Immediately before use, mix the control **thoroughly** by first flicking the tubes 3 times followed by inverting at least 3 times. Tap the tube 3 times on the bench to remove any control caught in the cap before opening the tube.
4. Refer to the Quality Control (QC) Testing section of the appropriate assay's Quick Guide to prepare, hydrate and load the corresponding Pouch.  
*Note: It is important to **thoroughly** mix the control with the Sample Buffer by inverting the Sample Injection Vial 3 times, as described in the Quick Guide.*
5. Test the QC sample by selecting the QC graphic icon at the top of the Home Screen and follow the on-screen instructions.
6. Discard after use according to your local and federal regulations.

For complete instructions, refer to the appropriate Quick Guide or Instruction Booklet provided by BioFire Diagnostics, LLC.

### EXPECTED VALUES:

The expected results when the SPOTFIRE RSP Negative Control is tested as a Quality Control (QC icon) with SPOTFIRE R Panel (Table 1), SPOTFIRE R Panel Mini (Table 2), SPOTFIRE R/ST Panel (Table 3), and SPOTFIRE R/ST Panel Mini (Table 4).

**Table 1. SPOTFIRE R Panel Results: R Negative QC Test**

PASS	
<b>Bacteria</b>	<b>Viruses</b>
Negative <i>Bordetella parapertussis</i>	Negative Adenovirus
Negative <i>Bordetella pertussis</i>	Negative Coronavirus SARS-CoV-2
Negative <i>Chlamydia pneumoniae</i>	Negative Coronavirus (seasonal)
Negative <i>Mycoplasma pneumoniae</i>	Negative Human Metapneumovirus
	Negative Human Rhinovirus/Enterovirus
	Negative Influenza A Virus
	Negative Influenza A virus A/H1-2009
	Negative Influenza A virus A/H3
	Negative Influenza B Virus
	Negative Parainfluenza Virus
	Negative Respiratory Syncytial Virus

**Table 2. SPOTFIRE R Panel Mini Results: R Negative QC Test**

PASS	
<b>Viruses</b>	
Negative Coronavirus SARS-CoV-2	
Negative Human Rhinovirus	
Negative Influenza A Virus	
Negative Influenza B Virus	
Negative Respiratory Syncytial Virus	

**Table 3. SPOTFIRE R/ST Panel Results: R ST Negative QC Test**

PASS	
<b>Bacteria</b>	<b>Viruses</b>
Negative <i>Bordetella parapertussis</i>	Negative Adenovirus
Negative <i>Bordetella pertussis</i>	Negative Coronavirus SARS-CoV-2
Negative <i>Chlamydia pneumoniae</i>	Negative Coronavirus (seasonal)
Negative <i>Mycoplasma pneumoniae</i>	Negative Human Metapneumovirus
Negative <i>Streptococcus dysgalactiae</i> (group C/G Strep)	Negative Human Rhinovirus/Enterovirus
Negative <i>Streptococcus pyogenes</i> (group A Strep)	Negative Influenza A Virus
	Negative Influenza A virus A/H1-2009
	Negative Influenza A virus A/H3
	Negative Influenza B Virus
	Negative Parainfluenza Virus
	Negative Respiratory Syncytial Virus

**Table 4. SPOTFIRE R/ST Mini Panel Results: R ST Negative QC Test**

PASS	
<b>Bacteria</b>	<b>Viruses</b>
Negative <i>Streptococcus pyogenes</i> (group A Strep)	Negative Coronavirus SARS-CoV-2
	Negative Human Rhinovirus
	Negative Influenza A Virus
	Negative Influenza B Virus
	Negative Respiratory Syncytial Virus

### REPRESENTATIVE PERFORMANCE DATA:

Three lots of SPOTFIRE RSP Positive Control and 4 lots of SPOTFIRE RSP Negative Control were tested over 9 months using the SPOTFIRE R and R/ST Panel assays on SPOTFIRE Systems at 5 near-patient clinical laboratory sites, facilities holding a CLIA Certificate of Waiver (U.S.), or similar Near Patient Testing (NPT) settings (Outside U.S.). Testing incorporated 25 pouch lots, multiple operators and instruments. Of the 232 samples tested, there were 7 Invalid results. Out of 225 tests with valid results, correct results were obtained in 224 tests for an overall success rate of 99.6%.

Summary of Performance Data									
Site	Total Tests	Invalid	Correct Positive Control Result	Incorrect Positive Control Result	Percent Correct Positive Control	Correct Negative Control Result	Incorrect Negative Control Result	Percent Correct Negative Control	Total Percent Correct
1	26	0	13	0	100%	13	0	100%	100%
2	33	1	13	0	100%	19	0	100%	100%
3	120	4	53	1	98.1%	62	0	100%	99.1%
4	44	1	21	0	100%	22	0	100%	100%
5	9	1	8	0	100%	NA	NA	NA	N/A
All Sites	232	7*	108	1	99.1%	116	0	100%	99.6%

\*Invalid results were not included in percent correct.

### ORDERING INFORMATION:

Product Name: SPOTFIRE RSP Negative Control  
Part Number: M42738  
Kit Contains: 6 tubes of Negative Control x 300µL

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Rx Only