

Quality Control Materials for use with BIOFIRE® FILMARRAY® and BIOFIRE® SPOTFIRE® Panels

Introduction

The Clinical Laboratory Improvement Amendments (CLIA), passed in 1988, establishes quality standards for all laboratory testing to ensure the accuracy and reliability of patient test results, regardless of where the test is performed. CLIA regulations require a laboratory to have quality control (QC) procedures to monitor the accuracy and precision of the complete testing process.

This document provides a listing of QC materials that have been tested at bioMérieux and are compatible with the BIOFIRE Panels indicated. The information in this document is meant to be a guideline and may not be inclusive.

For guidelines to assist your laboratory in developing an individualized quality control plan for BIOFIRE® FILMARRAY® and BIOFIRE® SPOTFIRE® Systems, please refer to the Example Individualized Quality Control Plan (IQCP) Risk Analysis for the following panels:

BIOFIRE® Blood Culture Identification 2 (BCID2) Panel: BFR0000-6645
 BIOFIRE® FILMARRAY® Gastrointestinal (GI) Panel: FLM1-PRT-0218
 BIOFIRE® Joint Infection (JI) Panel: BFR0000-9504
 BIOFIRE® FILMARRAY® Meningitis/Encephalitis (ME) Panel: FLM1-PRT-0219
 BIOFIRE® FILMARRAY® Pneumonia Panel: FLM2-PRT-0313
 BIOFIRE® Respiratory Panel 2.1 (RP2.1): BFR0000-8660
 BIOFIRE® Respiratory Panel 2.1 *plus* (RP2.1*plus*): BFR000-8660
 BIOFIRE® Respiratory Panel 2.1-EZ (RP2.1-EZ) (EUA)*: BFR000-8660
 BIOFIRE® SPOTFIRE® Respiratory (R) Panel: BFR0001-2499
 BIOFIRE® SPOTFIRE® Respiratory (R) Panel Mini: BFR0001-2499
 BIOFIRE® SPOTFIRE® Respiratory/Sore Throat (R/ST) Panel: BFR0001-2499
 BIOFIRE® SPOTFIRE® Respiratory/Sore Throat (R/ST) Panel Mini: BFR0001-2499

** · This product has not been FDA cleared or approved, but has been authorized for emergency use by FDA under an EUA for use by authorized laboratories;*

· This product has been authorized only for the detection and differentiation of nucleic acid of SARS-CoV-2 from multiple respiratory viral and bacterial organisms; and,

· The emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.



-  **Note:** The QC materials listed are appropriate for use with the panel described and may not be compatible with other BIOFIRE or SPOTFIRE Panels.
-  **Note:** The use of routine quality control materials is not appropriate for verification of test method performance (COM.40300). Please refer to BIOFIRE Laboratory Verification Tech Notes for further instruction on verification protocols.
-  **Note:** Adding commercial QC samples to transport media will dilute samples below the intended pathogen concentration and may lead to missed detections. In addition, QC samples should never be pooled prior to testing.

Quality Control Resources

Table 1. QC Materials for BIOFIRE BCID2 Panel

BIOFIRE BCID2 Panel		
Vendor	Product Name	Part Number
Maine Molecular Quality Controls, Inc.	FilmArray® BCID2 Control Panel	M416 ^{2,3}
Microbiologics	Blood Culture Identification Control Panel (43 Targets)	8254 ^{1,3}
Streck LLC	MDx-Chex® for BCID2	250065 ^{2,3}

¹For in vitro Diagnostic Use; an FDA cleared Class I Unassayed Control

²For in vitro Diagnostic Use; an FDA cleared class II Assayed Control

³CE-IVD marked

Table 2. QC Materials for BIOFIRE GI Panel

BIOFIRE GI Panel		
Vendor	Product Name	Part Number
Maine Molecular Quality Controls, Inc.	FilmArray® GI Control Panel	M238 ¹
ZeptoMetrix, LLC	NATtrol™ GI Controls	NATGIC-BIO

¹CE-IVD marked

Table 3. QC Materials for BIOFIRE JI Panel

BIOFIRE JI Panel		
Vendor	Product Name	Part Number
Maine Molecular Quality Controls, Inc.	BioFire® JI Control Panel	M420 ^{1,2}

¹CE-IVD marked

²For in vitro Diagnostic Use; an FDA cleared class II Assayed Control

Table 4. QC Materials for BIOFIRE ME Panel

BIOFIRE ME Panel		
Vendor	Product Name	Part Number
Maine Molecular Quality Controls, Inc.	BioFire® ME Control Panel	M262 ¹
ZeptoMetrix, LLC	NATtrol™ Meningitis/Encephalitis (ME) Controls	NATMEC-BIO

¹CE-IVD marked

Table 5. QC Materials for BIOFIRE PN and PN*plus* Panels

BIOFIRE Pneumonia and Pneumoni <i>plus</i> Panels		
Vendor	Product Name	Part Number
Maine Molecular Quality Controls, Inc.	FilmArray® Pneumonia/ Pneumoni <i>plus</i> Control	M340 ^{1,2,3}

¹For in vitro Diagnostic Use; an FDA cleared class II Assayed Control

²Control contains MERS-CoV2 recombinant material

³CE-IVD marked

Table 6. QC Materials for BIOFIRE® Respiratory Panel 2.1 (RP2.1), RP2.1*plus*, and RP2.1-EZ (EUA)*

BIOFIRE RP2.1, RP2.1 <i>plus</i> , RP2.1-EZ (EUA)		
Vendor	Product Name	Part Number
Bio-Rad/Exact Diagnostics	EDX RP Positive Run Control/ RP Negative Run Control	RPPOS ^{1,3,4} / RPNEG ^{1,3}
Maine Molecular Quality Controls, Inc.	BioFire® RP2.1/RP2.1 <i>plus</i> Control Panel	M441 ^{2,3,4}
Microbiologics	Respiratory Control Panel (22 Targets)	8247 ¹
ZeptoMetrix, LLC	NATtrol™ Respiratory Panel 2.1 (RP2.1) Controls	NATRPC2.1-BIO

¹ For in vitro Diagnostic Use; an FDA cleared Class I Unassayed Control

² For in vitro Diagnostic Use; an FDA cleared class II Assayed Control

³ CE-IVD marked

⁴ Control contains MERS-CoV2 recombinant material

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· This product has been authorized only for the detection and differentiation of nucleic acid of SARS-CoV-2 from multiple respiratory viral and bacterial organisms; and,

· The emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

Table 7. QC Materials for SPOTFIRE R Panel and SPOTFIRE R Panel Mini

SPOTFIRE R Panel and SPOTFIRE R Panel Mini		
Vendor	Product Name	Part Number
For use with the QC workflow in CLIA-Waived or CLIA-Moderate setting*		
Maine Molecular Quality Controls, Inc.	SPOTFIRE® RSP Positive Control	M42638 ²
	SPOTFIRE® RSP Negative Control	M42738 ²
	SPOTFIRE® RSP Pos & Neg Controls (contains M42638 Positive Control and M42738 Negative Control)	M425 ²
For use with the patient workflow in CLIA-Moderate settings		
Bio-Rad/ Exact Diagnostics	EDX RP Positive Run Control/ RP Negative Run Control	RPPOS ^{1,3,4} / RPNEG ^{1,3}
Microbiologics	Respiratory Control Panel (22 Targets)	8247 ¹
ZeptoMetrix, LLC	NATtrol™ Respiratory Panel (RSP) Controls	NATRSPC-BIO

¹ For in vitro Diagnostic Use; an FDA cleared Class I Unassayed Control

² For in vitro Diagnostic Use; an FDA cleared class II Assayed Control

³ CE-IVD marked

⁴ Control contains MERS-CoV2 recombinant material

* QC material is compatible with the QC workflow on the SPOTFIRE R Panel , the SPOTFIRE R Panel Mini, and the SPOTFIRE R/ST Panel and will produce a PASS or FAIL result.

Table 8. QC Materials for SPOTFIRE R/ST Panel and SPOTFIRE R/ST Panel Mini

SPOTFIRE R/ST Panel		
Vendor	Product Name	Part Number
For use with the QC workflow in CLIA-Waived or CLIA-Moderate setting*		
Maine Molecular Quality Controls, Inc.	SPOTFIRE® RSP Positive Control	M42638 ¹
	SPOTFIRE® RSP Negative Control	M42738 ¹
	SPOTFIRE® RSP Pos & Neg Controls (contains M42638 Positive Control and M42738 Negative Control)	M425 ¹
For use in the patient workflow in CLIA-Moderate settings		
ZeptoMetrix, LLC	NATtrol™ Respiratory/Sore Throat (R/ST) Control	NATRSTC-BIO

¹ For in vitro Diagnostic Use; an FDA cleared class II Assayed Control

* QC material is compatible with the QC workflow on the SPOTFIRE R/ST Panel and will produce a PASS or FAIL result.

Technical Support Contact Information

bioMérieux is dedicated to providing the best customer support available. If you have any questions or concerns about this process, please contact the BIOFIRE Technical Support team for assistance.

BIOFIRE Technical Support
Email: biofiresupport@biomerieux.com
Phone: +1-801-736-6354, select Option 5

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