

# **Certificate of Analysis**

# Description

Product Name	MiSeqDx® Cystic Fibrosis 139 Variant Assay (2 Run)	Catalog No.	DX-102-1004
Part Number	15036580	Lot No.	A161673

#### **Test Conditions**

Kitted reagents were tested by performing a MiSeqDx® Cystic Fibrosis 139 Variant Assay run using a set of eight Coriell cell line derived genomic DNA samples (http://ccr.coriell.org/). Multiple replicates (at least 3) of each of the eight unique samples and "No Template Controls" (NTCs) were sequenced using a 2 x 150 cycle paired end run configuration. The sample set provides representation of different types of sequence variations which could be present in CFTR gene in clinical samples (single nucleotide variations, small insertions/deletions, compound insertion/deletions, insertion/deletions in homopolymeric regions, large deletions).

Note: Flow cells are serialized and release tested separately via a hybridization assay.

### Coriell Sample ID Mutations (Common Name)\*

F508del, 3849+10kbC>T
M1101K (HOM)
621+1G>T, A455E
R347P, G551D
CFTR dele2,3, F508del
Y122X, R1158X
3905insT
F508del, 2183AA>G

<sup>\*</sup> All mutations are heterozygous unless indicated otherwise.



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#### **Test Results**

Run Metric Specification		Result
Call Rate <sup>1</sup>	≥ 99%	Pass
Accuracy <sup>2</sup>	All genotypes correctly called	Pass

<sup>&</sup>lt;sup>1</sup> Call Rate for a given sample is the number of positions/regions with genotype calls as a percentage of the number of positions/regions sequenced.

## Certification

This document certifies that the product(s) described above meet quality specifications.

Quality Review	1					
Print Name	Ruchi Doshi	Signature	Rock	Electronically signed by: Ruchi Doshi Reason: Approver Date: Jan 22, 2021 17:40 PST	Date	22-JAN-2021

<sup>&</sup>lt;sup>2</sup> Accuracy for a given sample, is the percent agreement with a reference method (Sanger bi-directional sequencing, and PCR assay for large deletions), calculated for those base positions that receive a base call.