

# **CERTIFICATE OF ANALYSIS**

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1	V-PLEX <sup>®</sup> SARS-CoV-2 Panel 22 Kit K15559-Series; K15560-Series; K15561-Series; K15562-Series; K15563-
	Series; K15564-Series; K15565-Series
Kit Lot Number:	K0082027
Expiration Date:	31 JUL 2023

# **Kit Components:**

Description	Lot Number	Storage Temperature	<b>Expiration Date</b>
SARS-CoV-2 Plate 22	Z0057107	2-8°C	31 JUL 2024
Reference Standard 1	A0080286	$\leq$ -70°C	28 FEB 2026
Serology Control 1.1	A00C0771	$\leq$ -70°C	28 FEB 2026
Serology Control 1.2	A00C0772	$\leq$ -70°C	28 FEB 2026
Serology Control 1.3	A00C0773	$\leq$ -70°C	28 FEB 2026
SULFO-TAG <sup>™</sup> Human ACE2 Protein	D0081708	2-8°C	31 JUL 2023
ACE2 Calibration Reagent 2	A0080327	2-8°C	31 OCT 2025
SULFO-TAG <sup>™</sup> Anti-Human IgG Antibody	D00V0019	2-8°C	30 APR 2025
SULFO-TAG <sup>™</sup> Anti-Human IgM Antibody	Not Kit Specific	2-8°C	See Label
SULFO-TAG <sup>™</sup> Anti-Human IgA Antibody	Not Kit Specific	2-8°C	See Label
SULFO-TAG <sup>™</sup> Anti-Mouse IgG Antibody	Not Kit Specific	2-8°C	See Label
SULFO-TAG <sup>™</sup> Anti-Mouse IgM Antibody	Not Kit Specific	2-8°C	See Label
SULFO-TAG <sup>™</sup> Anti-Mouse IgA Antibody	Not Kit Specific	2-8°C	See Label
Diluent 100	Not Kit Specific	2-8°C	See Label
MSD Blocker A Kit	Not Kit Specific	Room Temperature	See Label
MSD GOLD Read Buffer B	Not Kit Specific	Room Temperature	See Label

See product insert regarding which components are provided with each IgG, IgA, IgM, or ACE2 kit.

## **Plate Uniformity Testing Results:**

Parameter	Precision			Uniformity	Signal
Metric	CV of Intra- plate Averages	Average Intra- plate CV	Max Intra- plate CV	Average Uniformity Metric	Average Signal
RBD (Omicron) (B.1.1.529; BA.1)	≤18%	$\leq 10\%$	≤1 <b>3</b> %	Pass	1,500 - 1,000,000
RBD (Beta) (B.1.351)	$\leq 25\%$	$\leq 15\%$	≤18%	Pass	1,500 - 1,000,000
RBD (Gamma) (P.1)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
RBD (Alpha) (B.1.1.7)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
RBD (Delta) (B.1.617.2)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 S1 RBD	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000



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### **Coating Confirmation Testing Results:**

Spot	Description	Result
1	RBD (Omicron) (B.1.1.529; BA.1)	Pass
2	RBD (Beta) (B.1.351)	Pass
4	RBD (Gamma) (P.1)	Pass
6	RBD (Alpha) (B.1.1.7)	Pass
9	RBD (Delta) (B.1.617.2)	Pass
10	SARS-CoV-2 S1 RBD	Pass

**RBD** indicates SARS-CoV-2 Receptor Binding Domain with mutation(s) listed.

### **Functional Testing Results:**

Sample Type	Calibrator	Controls		Samples	
Metric	Avg Signal Ratio Test:Reference	Control Recovery	Control Conc. CV	Avg % Difference Test:Reference	Slope Test:Reference
RBD (Omicron) (B.1.1.529; BA.1)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
RBD (Beta) (B.1.351)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
RBD (Gamma) (P.1)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
RBD (Alpha) (B.1.1.7)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
RBD (Delta) (B.1.617.2)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 S1 RBD	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2

### **Additional Comments:**

Functional testing was executed using SARS-CoV-2 Plate 22 (Z0057107), SULFO-TAG Anti-Human IgG Antibody (D00V0019), Reference Standard 1 (A0080286), and Serology Controls (A00C0771, A00C0772, A00C0773).

All kit components were manufactured and tested according to MSD documents. The lots listed in the Kit Components table meet MSD's specifications.

### Statement:

The above product is intended for Research Use Only. Not for use in Diagnostic Procedures.

	Name	Function	Signature	Date
Review/Approval	Karen Hamilla	Quality	Kann Hamille	08 JUN 2022