

CERTIFICATE OF ANALYSIS

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Product Description:	V-PLEX [®] SARS-CoV-2 Panel 7 Kit
Kit Catalog Numbers:	K15437-Series; K15438-Series; K15439-Series; K15440-Series
Kit Lot Number:	K0081777
Expiration Date :	31 DEC 2022

Kit Components:

Description	Lot Number	Storage Temperature	Expiration Date
SARS-CoV-2 Plate 7	Z0056999	2-8°C	31 DEC 2023
SULFO-TAG [™] Anti-Human IgG Antibody	D00V0009	2-8°C	31 JUL 2024
SULFO-TAG [™] Anti-Human IgM Antibody	D00V0011	2-8°C	31 AUG 2024
SULFO-TAG [™] Anti-Human IgA Antibody	D00V0010	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 [™] Human ACE2 Protein	D0081619	2-8°C	31 DEC 2022
ACE2 Calibration Reagent	A0080285	2-8°C	31 AUG 2024
MSD Blocker A Kit	Not Kit Specific	Room Temperature	See Label
Diluent 100	Not Kit Specific	2-8°C	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, and 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
SARS-CoV-2 Spike	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 S1 RBD (B.1.351)	$\leq 25\%$	$\leq 15\%$	≤ 18%	Pass	1,500 - 1,000,000
SARS-CoV-2 Nucleocapsid	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 S1 RBD (P.1)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 S1 RBD (B.1.1.7)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 Spike (P.1)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 Spike (B.1.1.7)	$\leq 18\%$	$\leq 10\%$	≤13%	Pass	1,500 - 1,000,000
SARS-CoV-2 Spike (B.1.351)	≤18%	$\leq 10\%$	≤ 13%	Pass	1,500 - 1,000,000
SARS-CoV-2 S1 RBD	≤18%	$\leq 10\%$	≤ 13%	Pass	1,500 - 1,000,000



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Coating Confirmation Testing Results:

Spot	Description	Result
1	SARS-CoV-2 Spike	Pass
2	SARS-CoV-2 S1 RBD (B.1.351)	Flag
3	SARS-CoV-2 Nucleocapsid	Pass
4	SARS-CoV-2 S1 RBD (P.1)	Pass
6	SARS-CoV-2 S1 RBD (B.1.1.7)	Pass
7	SARS-CoV-2 Spike (P.1)	Pass
8	SARS-CoV-2 Spike (B.1.1.7)	Pass
9	SARS-CoV-2 Spike (B.1.351)	Pass
10	SARS-CoV-2 S1 RBD	Pass

Functional Testing Results:

Sample Type	Calibrator	Controls		Samples	6
Metric	Average Signal Ratio Test:Reference	Control Recovery	Control Conc. CV	Average % Difference Test:Reference	Slope Test:Reference
SARS-CoV-2 Spike	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 S1 RBD (B.1.351)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 Nucleocapsid	50 - 200%	70-130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 S1 RBD (P.1)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 S1 RBD (B.1.1.7)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 Spike (P.1)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 Spike (B.1.1.7)	50 - 200%	70 - 130%	< 20%	$\pm 25\%$	0.80 - 1.2
SARS-CoV-2 Spike (B.1.351)	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 7 (Z0056999), SULFO-TAG Anti-Human IgG Antibody (D00V0009), 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	Haven Hamille	29 JUL 2021