

SUPPLEMENT:
Table S1. Microneutralization assay ancestral strain robustness – virus incubation time.

Sample	Virus/Sera Incubation Time ¹	MN50 Titer	% Recovery (Difference Compared to Baseline MN50 Titer) ²
1	60 minutes	1810	-
	30 minutes	2560	41.4
	90 minutes	5120	182.9
2	60 minutes	381	-
	30 minutes	320	-15.9
	90 minutes	320	-15.9
3	60 minutes	380.54	-
	30 minutes	160	-58.0
	90 minutes	320	-15.9
4	60 minutes	8127	-
	30 minutes	10240	26.0
	90 minutes	5120	-37.0
5	60 minutes	53.394	-
	30 minutes	40	-25.1
	90 minutes	40	-25.1
	30-minute incubation:		80% Pass
	90-minute incubation:		80% Pass

¹60-minute incubation is the baseline (reference) condition for incubation time.

²Values that failed to meet the target criterion are italicized.

Table S2. Microneutralization assay ancestral strain robustness – cell passage.

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Sample	Vero E6 Cell Passage Number	MN50 Titer	% Recovery (Difference Compared to Baseline MN50 Titer) ¹
1	GMT	1810	
	P2	1280	-29.3
	P5	2560	41.4
	P8	2560	40.4
	P10	2560	41.4
	P12	5120	182.9
	P15	10240	465.7
2	GMT	381	
	P2	320	-16.0
	P5	480	26.0
	P8	640	68.0
	P10	320	-16.0
	P12	1280	236.0
	P15	1280	236.0
3	GMT	806.35	
	P2	1280	58.7
	P5	960	19.1
	P8	1280	58.7
	P10	1280	58.7
	P12	1280	58.7
	P15	1280	58.7
4	GMT	8127	
	P2	5120	-37.0
	P5	7680	-5.5
	P8	10240	26.0
	P10	10240	26.0
	P12	10240	26.0
	P15	10240	26.0
5	GMT	53.4	
	P2	40	-25.1
	P5	60	12.4
	P8	40	-25.1
	P10	40	-25.1
	P12	40	-25.1
	P15	20	-62.5
	P2:		100% Pass
	P5:		100% Pass
	P8:		100% Pass
	P10:		100% Pass
	P12:		60% Pass
	P16:		40% Pass

¹Values that failed to meet the target criterion are italicized.

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Table S3. Microneutralization assay ancestral strain robustness – cell seeding density.

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Sample	Cell Seeding Density ¹	MN50 Titer	% Recovery (Difference Compared to Baseline MN50 Titer) ²
1	1.5x10 ⁴ cells/well	1810	-
	1x10 ⁴ cells/well	2560	41.4
	2x10 ⁴ cells/well	2560	41.4
2	1.5x10 ⁴ cells/well	381	-
	1x10 ⁴ cells/well	640	68.2
	2x10 ⁴ cells/well	640	68.2
3	1.5x10 ⁴ cells/well	380.54	-
	1x10 ⁴ cells/well	640	68.2
	2x10 ⁴ cells/well	320	-15.9
4	1.5x10 ⁴ cells/well	8127	-
	1x10 ⁴ cells/well	10240	26.0
	2x10 ⁴ cells/well	10240	26.0
5	1.5x10 ⁴ cells/well	53.394	-
	1x10 ⁴ cells/well	80	49.8
	2x10 ⁴ cells/well	20	-62.5
	1x10 ⁴ cells/well density:		100% Pass
	2x10 ⁴ cells/well density:		80% Pass

¹1.5x10⁴ cells/well is the baseline (reference) condition for cell seeding density.

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²Values that failed to meet the target criterion are italicized.

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Table S4. Microneutralization assay ancestral strain robustness – SARS-CoV-2 TCID50 units/well.

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Sample	TCID50 Units/Well ¹	MN50 Titer	% Recovery (Difference Compared to Baseline MN50 Titer) ²
1	200 TCID50 units/well	1810	-
	100 TCID50 units/well	2560	41.4
	400 TCID50 units/well	1280	-29.3
2	200 TCID50 units/well	381	-
	100 TCID50 units/well	640	68.2
	400 TCID50 units/well	320	-15.9
3	200 TCID50 units/well	380.54	-
	100 TCID50 units/well	640	68.2
	400 TCID50 units/well	320	-15.9
4	200 TCID50 units/well	8127	-
	100 TCID50 units/well	10240	26.0
	400 TCID50 units/well	10240	26.0
5	200 TCID50 units/well	53.394	-
	100 TCID50 units/well	80	49.8
	400 TCID50 units/well	20	-62.5
	100 TCID50 units/well:		100% Pass
	400 TCID50 units/well:		80% Pass

¹200 TCID50 units/well is the baseline (reference) condition.

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²Values that failed to meet the target criterion are italicized.

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Table S5. Microneutralization assay ancestral strain robustness – serum interference.

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Sample	Additive	MN50 Titer	% Recovery (Difference Compared to Baseline MN50 Titer) ¹
1	Fresh	1810	-
	Triglyceride	5120	182.9
	Hemolysate	5120	182.9
	Bilirubin	2560	41.4
2	Fresh	507	-
	Triglyceride	640	26.2
	Hemolysate	320	-36.9
	Bilirubin	320	-36.9
3	Fresh	806.3	-
	Triglyceride	640	-20.6
	Hemolysate	1280	58.7
	Bilirubin	1280	58.7
4	Fresh	1436	-
	Triglyceride	1280	-10.9
	Hemolysate	1280	-10.9
	Bilirubin	1280	-10.9
5	Fresh	403	-
	Triglyceride	320	-20.6
	Hemolysate	320	-20.6
	Bilirubin	640	58.8
6	Fresh	≤ 20	-
	Triglyceride	≤ 20	0
	Hemolysate	≤ 20	0
	Bilirubin	≤ 20	0
Triglyceride addition:			83% Pass
Hemolysate addition:			83% Pass
Bilirubin addition:			100% Pass

¹Values that failed to meet the target criterion are italicized.

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