

# **Efficacy of Detergent-Based Cleaning Methods Against Coronavirus MHV-A59 on Porous and Non-Porous Surfaces – Supplemental Materials**

**Table S1. Cytotoxicity of Coupon Materials.**

<b>Material</b>	<b>Average Percent Cytotoxicity (%)<sup>a</sup></b>	<b>Stdev</b>
<b>Formica</b>	3.20	7.14
<b>ABS</b>	0.47	2.40
<b>SS</b>	-0.93	1.32
<b>Fabric</b>	1.04	4.88

<sup>a</sup>Percent cytotoxicity relative to maximum LDH release in lysed control wells.

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Table S2. Recovery of MHV-A59 in Culture Medium

Material	Inoculum Volume per Coupon (mL)	Recovery ( $\log_{10}$ TCID50 per Coupon)				Log Reduction from T0	Adjusted P Value <sup>a</sup> (T2 vs. T0)	Percent Inoculum Recovered at T0 (%)			
		T0		T2							
		Avg	Stdev	Avg	Stdev						
Formica	0.1	6.07	0.63	5.48	0.46	0.60	0.115	95.30			
ABS	0.1	6.33	0.07	5.55	0.21	0.78	0.103	99.37			
SS	0.1	5.98	0.45	6.08	0.36	-0.10	0.992	93.87			
Fabric	0.1	6.32	0.11	5.05	0.33	1.27	0.001	98.43			

<sup>a</sup>Two-way ANOVA, Sidak's Multiple Comparisons Test

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Table S3. Recovery of MHV-A59 in Simulated Saliva

Material	Inoculum Volume per Coupon (mL)	Recovery ( $\log_{10}$ TCID50 per Coupon)				Log Reduction from T0	Adjusted P Value <sup>a</sup> (T2 vs. T0)	Percent Inoculum Recovered at T0 (%) <sup>b</sup>			
		T0		T2							
		Avg	Stdev	Avg	Stdev						
Formica	0.1	6.52	0.03	5.34	0.04	1.18	<0.0001	119.10			
ABS	0.1	6.28	0.12	5.73	0.09	0.55	<0.0001	82.42			
SS	0.1	6.53	0.25	5.98	0.09	0.55	<0.0001	158.00			
Fabric	0.1	6.10	0.08	5.09	0.05	1.01	<0.0001	170.45			

<sup>a</sup> Two-way ANOVA, Sidak's Multiple Comparisons Test; <sup>b</sup> Average percent recovery from calculated TCID50 value inoculum per coupon; n=3 per test.

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**Table S4. Cleaning Efficacy of Dawn and Tide Plus Bleach Alternative against MHV-A59 in Cell Culture Media on Material Coupons<sup>a</sup>**

	Dawn		Tide		Hard Water		Wipe Alone	
	T0 hr	T2 hr	T0 hr	T2 hr	T0 hr	T2 hr	T0 hr	T2 hr
Formica	1.75 ± 0.21 (4.41)	2.77 ± 1.16 (4.41)	2.68 ± 0.50 (4.82)	2.85 ± 0.85 (4.09)	1.69 ± 0.33	2.64 ± 0.32	2.76 ± 0.69	1.20 ± 0.54
ABS	2.57 ± 0.29 (4.64)	2.40 ± 0.47 (3.85)	3.12 ± 0.75 (4.64)	2.79 ± 0.92 (3.85)	3.53 ± 0.99	2.87 ± 0.53	2.93 ± 0.31	2.06 ± 0.45
SS	2.35 ± 0.21 (4.59)	2.18 ± 0.16 (3.99)	2.92 ± 1.27 (4.71)	3.30 ± 0.72 (4.07)	2.49 ± 0.32	1.70 ± 0.17	2.31 ± 0.35	1.37 ± 0.04
Fabric	0.60 ± 0.32 (4.52)	0.04 ± 0.32 (3.18)	0.90 ± 0.37 (4.62)	0.10 ± 0.05 (3.47)	0.73 ± 0.26	0.002 ± 0.17	1.45 ± 0.49	0.03 ± 0.25

<sup>a</sup> The dynamic range for each test is included in parentheses. Data are presented as mean log<sub>10</sub> reduction ± log<sub>10</sub> standard deviation. The dynamic range (log<sub>10</sub>) is indicated in parentheses for test samples (detergents). For hard water and wipe alone controls, data reflects the mean and standard deviation values across both Dawn and Tide tests.

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**Table S5. Cleaning Efficacy of Dawn and Tide with Bleach Alternative against MHV-A59 in Simulated Saliva on Material Coupons <sup>a</sup>**

	Dawn		Tide		Hard Water		Wipe Alone	
	0 hr	2 hr	0 hr	2 hr	0 hr	2 hr	0 hr	2 hr
Formica	1.84 ± 0.50 (4.82)	3.12 ± 0.84 (3.65)	2.82 ± 1.21 (4.82)	2.95 ± 0.68 (3.65)	1.55 ± 0.18	1.36 ± 0.14	2.38 ± 0.20	0.74 ± 0.52
ABS	2.60 ± 0.61 (4.58)	3.16 ± 1.03 (4.03)	2.65 ± 0.65 (4.58)	2.29 ± 0.17 (4.03)	1.40 ± 0.59	2.07 ± 0.17	3.24 ± 0.42	1.06 ± 0.64
SS	2.42 ± 0.30 (4.83)	2.60 ± 0.16 (4.28)	3.02 ± 0.63 (4.83)	2.34 ± 0.63 (4.28)	2.21 ± 0.21	2.21 ± 0.23	2.64 ± 0.44	1.43 ± 0.33
Fabric	1.06 ± 0.08 (4.40)	0.48 ± 0.21 (3.40)	0.82 ± 0.08 (4.40)	0.38 ± 0.36 (3.40)	0.66 ± 0.10	0.24 ± 0.27	1.48 ± 0.32	-0.09 ± 0.16

<sup>a</sup> The dynamic range for each test is included in parentheses. Data are presented as mean log<sub>10</sub> reduction ± log<sub>10</sub> standard deviation. The dynamic range (log<sub>10</sub>) is indicated in parentheses for test samples (detergents). For hard water and wipe alone controls, data reflects the mean and standard deviation values across both Dawn and Tide tests.