

1 Supplemental materials for the manuscript entitled

2 Culture-independent evaluation of non-enveloped virus infectivity reduced by free

3 chlorine disinfection

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Containing:

8 **4 pages**

7 table

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13 **Table S1.** Primers used in this study

Target	Primer	Sequence (5'-3')	Reference
Murine norovirus	MNV-S	CCGCAGGAACGCTCAGCAG	Kitajima et al. 2010
	MNV-AS	GGYTGAATGGGGACGGCCTG	
	MNV-TP	FAM-ATGAGTGATGGCGCA-MGB-NFQ	
Mengovirus vMC0	Mengo110	GCGGGTCCTGCCGAAAGT	Costafreda et al. 2006
	Mengo209	GAAGTAACATATAGACAGACGCACAC	
	Mengo147	FAM-ATCACATTACTGGCGAAGC-NFQ-MGB	

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16 **References**

- 17 **Kitajima M, Oka T, Tohya Y, Katayama H, Takeda N, Katayama K.** 2009. Development
18 and application of a broadly reactive real-time reverse transcription-PCR assay to detect
19 murine noroviruses. *J. Virol Meth.* **169**(2):269-273.
- 20 **Costafreda MI, Bosch A, Pinto RM.** 2006. Development, evaluation, and standardization of
21 a real-time TaqMan reverse transcription-PCR assay for quantification of hepatitis A virus in
22 clinical and shellfish samples. *Appl. Environ. Microbiol.* **72**(6):3846-3855.

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Table S2. Regression statistics for Fig. 1

Multiple correlation coefficient	0.90
Coefficient of determination	0.81
Adjusted coefficient of determination	0.79
Standard error	5.5
Observations	13

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Table S3. Analysis of variance for Fig. 1

	df	SS	MS	F	Significance F
Regression	1	1384.92	1384.92	46.09	2.998E-05
Residual	11	330.55	30.05		
Total	12	1715.47			

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Table S4. Regression coefficients for Fig. 1

	Coefficients	Standard error	t Stat	p value	Lower 95%	Upper 95%
Intercept	92.70	4.30	21.6	2.38E-10	83.2	102.2
Slope	-7.94	1.17	-6.79	3.00E-05	-10.6	-5.4

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Table S5. Regression statistics for Fig. 2

Multiple correlation coefficient	0.88
Coefficient of determination	0.78
Adjusted coefficient of determination	0.77
Standard error	8.75
Observations	15

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Table S6. Analysis of variance for Fig. 2

	df	SS	MS	F	Significance F
Regression	1	3579.74	3579.74	46.751339	0.000012
Residual	13	995.41	76.57		
Total	14	4575.15			

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Table S7. Regression coefficients for Fig. 2

	Coefficients	Standard error	t Stat	p value	Lower 95%	Upper 95%
Intercept	108	6.59	16.3	4.81E-10	93.4	93.4
Slope	-7.3	1.07	-6.84	1.19E-05	-9.66	-9.66

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