

Table S1: Respirator and Mask Decontamination and Testing Matrix

Virucidal Efficacy				Halyard Duckbill Respirator (RH)	3M 1860 Half-sphere Respirator (RM)	3M 1870+ Panel Respirator (R3)		WHO Type II Face Mask (FW)	Halyard Type IIR Face Mask (FH)	Community Face Mask (CM)
Decontamination Site	Decontamination Method	Respirator Virucidal Test	Respirator Test site				Mask Virucidal Test	Mask Test Site		
N/A	Untreated after MHV application	Virucidal efficacy on partial mask	University of Washington / Seattle Children’s Hospital	3	3	3	Virucidal efficacy on partial mask	University of Washington / Seattle Children’s Hospital	3	3
University of Washington / Seattle Children’s Hospital	MBL and DH after MHV application	Virucidal efficacy on partial mask	University of Washington / Seattle Children’s Hospital	3	3	3	Virucidal efficacy on partial mask	University of Washington / Seattle Children’s Hospital	3	3
N/A	Untreated after SARS-CoV-2 application	Virucidal efficacy on partial mask	George Washington University	3	3	3	Virucidal efficacy on partial mask	George Washington University	3	3
George Washington University	MBL and DH after SARS-CoV-2 application	Virucidal efficacy on whole mask	George Washington University	3	3	3	Virucidal efficacy on whole mask	George Washington University	3	3
N/A	Untreated after SARS-CoV-2 application	Virucidal efficacy on partial mask	University of Alberta	3	3	3	Virucidal efficacy on partial mask	University of Alberta	3	3
University of Alberta	MBL and DH after SARS-CoV-2 application	Virucidal efficacy on partial mask	University of Alberta	3	3	3	Virucidal efficacy on partial mask	University of Alberta	3	3
N/A	Untreated after PRCV application	Virucidal efficacy on partial mask	University of Liège	3	3	33	Virucidal efficacy on partial mask	University of Liège	31	3
University of Liège	MBL after PRCV application	Virucidal efficacy on partial mask	University of Liège	3	3	3	Virucidal efficacy on partial mask	University of Liège	3	3
University of Liège	DH after PRCV application	Virucidal efficacy on partial mask	University of Liège	3	3	3	Virucidal efficacy on partial mask	University of Liège	3	3
Virucidal Efficacy Subtotal:				27	27	57		55	27	27
Integrity Testing										
Decontamination Site	Decontamination Method	Respirator Integrity Test	Respirator Test Site				Mask Integrity Test	Mask Test Site		
N/A	untreated	N/A	N/A	N/A	N/A	N/A	Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration; Tensile Strength	Centexbel	20	20

University of Liège	MBL 5x	N/A	N/A	N/A	N/A	N/A	Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration; Tensile Strength	Centexbel	20	20	20
University of Liège	DH 5x	N/A	N/A	N/A	N/A	N/A	Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration; Tensile Strength	Centexbel	20	20	20
N/A	untreated	Human Fit (PortaCount)	University of Calgary	5	5	5	N/A	N/A	N/A	N/A	N/A
University of Calgary/ Alberta Health Services	MBL 5x	Human Fit (PortaCount)	University of Calgary	5	5	5	N/A	N/A	N/A	N/A	N/A
University of Calgary/ Alberta Health Services	DH 5x	Human Fit (PortaCount)	University of Calgary	5	5	5	N/A	N/A	N/A	N/A	N/A
University of Calgary/ Alberta Health Services	VHP+O ₃ 5x	Human Fit (PortaCount)	University of Calgary	5	5	5	N/A	N/A	N/A	N/A	N/A
N/A	untreated	NaCl Filtration Efficiency and Breathing Resistance; Advanced Headform (Manikin); Tensile Strength (respirators and masks)	NIOSH NPPTL	10	10	10	NaCl Filtration and Breathing Resistance; Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration	Nelson Laboratories	20	20	20
Nelson Laboratories	MBL 5x	NaCl Filtration Efficiency and Breathing Resistance; Advanced Headform (Manikin); Tensile Strength (respirators and masks)	NIOSH NPPTL	13	13	13	NaCl Filtration and Breathing Resistance; Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration	Nelson Laboratories	20	20	20
4C Air Inc.	DH 5x	NaCl Filtration Efficiency and Breathing Resistance; Advanced Headform (Manikin); Tensile Strength (respirators and masks)	NIOSH NPPTL	13	13	13	NaCl Filtration and Breathing Resistance; Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration	Nelson Laboratories	20	20	20
Stryker Ltd.	VHP+O ₃ 5x	NaCl Filtration Efficiency and Breathing Resistance; Advanced Headform (Manikin); Tensile Strength (respirators and masks)	NIOSH NPPTL	13	13	13	NaCl Filtration and Breathing Resistance; Bacterial Filtration Efficiency and Pressure Drop; Fluid Penetration	Nelson Laboratories	20	20	N/A
N/A	untreated	Sheffield Dummy Fit	BSI LLC	3	3	3	Sheffield Dummy Fit	BSI LLC	3	3	3

Nelson Laboratories	MBL 5x	Sheffield Dummy Fit	BSI LLC	3	3	3	Sheffield Dummy Fit	BSI LLC	3	3	3
4C Air Inc.	DH 5x	Sheffield Dummy Fit	BSI LLC	3	3	3	Sheffield Dummy Fit	BSI LLC	3	3	3
Stryker Ltd.	VHP+O ₃ 5x	Sheffield Dummy Fit	BSI LLC	3	3	3	Sheffield Dummy Fit	BSI LLC	3	3	N/A
N/A	untreated	Human Fit (PortaCount)	Stanford University	5	5	5	Human Fit (PortaCount)	Stanford University	5	5	5
4C Air Inc.	MBL 5x	Human Fit (PortaCount)	Stanford University	5	5	5	Human Fit (PortaCount)	Stanford University	5	5	5
4C Air Inc.	DH 5x	Human Fit (PortaCount)	Stanford University	5	5	5	Human Fit (PortaCount)	Stanford University	5	5	5
Stryker Ltd.	VHP+O ₃ 5x	Human Fit (PortaCount)	Stanford University	5	5	5	Human Fit (PortaCount)	Stanford University	5	5	N/A
Integrity Subtotal:				101	101	101			172	172	144
GRAND TOTAL				128	128	158			227	199	171