

Summary of Certification – updated 8th Nov, 2023

	3 rd Party Laboratory	SSS UV Matt	SSS UV Gloss	SSS Water Base Gloss
Acute Oral Toxicity	SGS, China	Pass No. GZCPCH221006599		
Antiviral Activity Test ISO 21702:2019	Gmicro Testing, China	99.3% 2022FM12226R01E	99.9% 2022FM12582R01E	99.9% 2022FM12581R01E
Antibacterial Activity	Osaka Laboratories Japan, Kaken Test Center	HK-22-007755	HK-22-019108	
Antibacterial Activity AATCC100-2019	Bureau Veritas, Hong Kong	99.9% (5222)209-0083		99.9% (5223)034-0117
Antibacterial Activity Test ISO21702	Japan Textile Products Quality and Technology Center	22KB-080103	22KB-080188	
Antiviral Activity Test ISO 21702:2019 (side 2)	Gmicro Testing, China	99.9% 2022FM16467R01E		99.9% 2022FM20377R01E
Antiviral Activity Test ISO 21702:2019	Gmicro Testing, China	2 years aged, 99.8% 2022FM24435R01E	2 years aged, 99.8% 2022FM24436R01E	2 years aged, 99.9% 2022FM20377R01E
AATCC 100-2019: Quantitative Determination of Antibacterial Finishes on Textile Materials	Bureau Veritas, Hong Kong	2 years aged (5223)034-0116		1 years aged (5222)297-0163
ASTM G21-15 Mold Resistance Test	Intertek, Hong Kong	HKGH02953529 HKGH02953781	HKGH02953780	
Non-food contact safety	Bureau Veritas, Hong Kong	(5222)356-0116	(5222)335-0007	

Non-food contact safety Migration of Certain Elements GB 6675.4-2014	UL VS Shanghai, China		1001808788 1001808788 (Chinese)	
Virucidal activity against SAR-CoV-2 Omicron BA.2 using ISO21702	Virology Research Service, London			99.9% KYN33
Antibacterial Activity Test for Textile Product ISO18184	Japan Textile Products Quality and Technology Center			22KB-080148
Food Contact Safety JP, US, EU	Intertek, Hong Kong			HKGH0295670501
Food Contact Safety KR	Intertek, Hong Kong			HKGH02970315
Quantitative Determination of Antibacterial Finishes	Bureau Veritas, Hong Kong			(5222)243-0224
Transfer of antimicrobial constituents BS EN 1104:2018 (Leaching Test)	Intertek, Hong Kong	Pass HKGH02937428	Pass HKGH03019527	
Antiviral Activity Test ISO 21702:2019	Gmicro Testing, China	2 years aged, 99.9% 2023FM03148R01E		1 years aged, 99.9% 2023FM09346R01E
Antiviral Activity Test ISO 21702:2019 (side 2)	Gmicro Testing, China			1 years aged, 99.9% 2023FM09347R01E
AATCC 100-2019 Quantitative Determination of Antibacterial Finishes	Bureau Veritas, Hong Kong			99.9% (5223)156-0279
AATCC 100-2019 Quantitative Determination of Antibacterial Finishes	Bureau Veritas, Hong Kong			99.9% (5223)080-0625

ISO22196:2011 Antibacterial (2 years)	Osaka Laboratories Japan, Kaken Test Center	Pass HK-23-000708	Pass HK-23-000707	
AATCC 100-2019 Quantitative Determination of Antibacterial Finishes (side 2)	Bureau Veritas, Hong Kong			99.9% (5223)102-07360
ASTM G21-2021 Resistance to Fungi	Gmicro Testing, China		Pass 2023FM10557R01E	Pass 2023FM07826R01E
ASTM G21-2021 Resistance to Fungi (side 2)	Gmicro Testing, China			Pass 2023FM07824R01E
Antiviral Activity Test ISO 21702:2019 (side 2)	Gmicro Testing, China			99.9% 2023FM05782R01E
Antiviral Activity Test ISO 21702:2019 (Feline Calicivirus)	Boken Quality Evaluation Institute	Pass TW-2330022	Pass TW-2330019	Pass TW-2360202B
Antiviral Activity Test ISO 21702:2019 (Feline Calicivirus) (side 2)	Boken Quality Evaluation Institute			Pass TW-2360203B
Antiviral Activity Test ISO 21702:2019 (Influenza A H1N1)	Boken Quality Evaluation Institute	Pass TW-2330021	Pass TW-2330017	Pass TW-2360202A
Antiviral Activity Test ISO 21702:2019 (Influenza A H1N1) (side 2)	Boken Quality Evaluation Institute			Pass TW-2360203A
Antiviral Activity Test ISO 21702:2019 (Influenza A H3N2)	Boken Quality Evaluation Institute	Pass TW2330020	Pass TW-2330016	Pass TW-2360202
Antiviral Activity Test ISO 21702:2019 (Influenza A H3N2) (side 2)	Boken Quality Evaluation Institute			Pass TW-2360203

Antiviral Activity Test ISO 21702:2019 (E) (SARS-CoV-2)	Nelson Laboratories			99.9% (2303763-408A)
Antiviral Activity Test ISO 21702:2019 (E) (SARS-CoV-2) Side 2	Nelson Laboratories			99.9% (2303763-408B)
Antiviral Activity Test ISO 21702:2019	Gmicro Testing, China	2 years aged, 99.1% 2023FM03147R01E		99.9% 2023FM05505R01E
Food Contact Safety (CN requirement)	Guangzhou Customs District Technology Center			Pass FCM2023040402281
Food Contact Safety (EU requirement) -1	Intertek, Hong Kong			Pass HKGH0302050001
Food Contact Safety (EU requirement) -2	Intertek, Hong Kong			Pass HKGH0302050005
Food Contact Safety (Japan requirement)	Intertek, Hong Kong			Pass HKGH0302050002
Food Contact Safety (Korea requirement)	Intertek, Hong Kong			Pass HKGH0302050004
Food Contact Safety (US requirement)	Intertek, Hong Kong			Pass HKGH0302050003
AATCC 100-2019 Quantitative Determination of Antibacterial Finishes (1 year)	Bureau Veritas, Hong Kong			99.9% (5223)156-0278
ISO22196:2011 Antibacterial (2 years)	Osaka Laboratories Japan, Kaken Test Center		Pass HK-23-000707	

List of Certificates – updated 8th Nov, 2023

(i) water-base styrene-acrylic varnish

WB90 Antibacterial B2 (52230340117)
WB90-40 1-yr-aged Antibacterial B2 (52222970163)
WB90-40 2-yr-aged Antiviral HCoV-OC43 B2 (2022FM20377R01E)
WB90-40 Antibacterial B1 (52222430224)
WB90-40 Antiviral HCoV-OC43 B1 (2022FM12581R01E)
WB90-40 Antiviral HCoV-OC43 B2 (2022FM20377R01E)
WB90-40 Antiviral SARS-CoV-2 (Omicron BA.2) B2 (KYN33)
WB90-40 Antiviral SARS-CoV-2 (Omicron) B1 (22KB080148)
WB90-40 Food contact safety (JP, US, EU requirements) (HKGH0295670501)
WB90-40 Food contact safety KR requirement (HKGH02970315)
WB149 1-year aged Antiviral HCoV-OC43 B1 (2_2023FM09346R01E)
WB149 1-year aged Antiviral HCoV-OC43 B2 (2_2023FM09347R01E)
WB149 1-year-aged Antibacterial B2 (52231560279)_
WB149 Antibacterial B1 (52230800625)
WB149 Antibacterial B2 (52231020730)
WB149 Antifungal B1 (2023FM07826R01E)
WB149 Antifungal B2 (2023FM07824R01E)
WB149 Antiviral B2 (2023FM05782R01E)
WB149 Antiviral Feline Calicivirus B1 (TW-2360202B)
WB149 Antiviral Feline Calicivirus B2 (TW-2360203B)
WB149 Antiviral H1N1 B1 (TW-2360202A)
WB149 Antiviral H1N1 B2 (TW-2360203A)
WB149 Antiviral H3N2 B1 (TW-2360202)
WB149 Antiviral H3N2 B2 (TW-2360203)
WB149 Antiviral SARS-CoV-2 B1 (2303763-408A)
WB149 Antiviral SARS-CoV-2 B2 (2303763-408B)
WB149 B1 Antiviral (2023FM05505R01E)
WB149 Food contact safety (CN requirements) FCM2023040402281
WB149 Food contact safety EU_1 (HKGH0302050001)
WB149 Food contact safety EU_2 (HKGH0302050005)
WB149 Food contact safety Japan (HKGH0302050002)
WB149 Food contact safety Korea (HKGH0302050004)
WB149 Food contact safety US (HKGH0302050003)
WB149-1-year-aged Antibacterial B1 (52231560278)

(ii) epoxy-acrylic UV gloss varnish

UE220 2-yr-aged - Antibacterial A1 (HK-23-000707)
UE220 2-yr-aged - Antiviral HCoV-OC43 A1 (2022FM24436R01E)
UE220 Antibacterial A1 (HK-22-019108)
UE220 Antifungal A1 (2023FM10557R01E)
UE220 Antifungal B1 (HKGH02953780)
UE220 Antiviral Feline Calicivirus A1 (TW-2330019)
UE220 Antiviral H1N1 A1 (TW-2330017)
UE220 Antiviral H3N2 A1 (TW-2330016)
UE220 Antiviral HCoV-OC43 A1 (2022FM12582R01E)
UE220 Antiviral SARS-CoV-2 A1 (22KB080188)
UE220 Leaching test (HKGH03019527)
UE220 Non-food contact safety (52223350007)
UE220 Non-food contact safety GB (1001808788)
UE220 Non-food contact safety GB (1001808788)_Chinese

(iii) polyurethane-acrylic UV matt varnish

MV122 2-yr-aged Antibacterial A1 (HK-23-000708)
MV122 2-yr-aged Antibacterial B2 (52230340116)
MV122 2-yr-aged Antiviral HCoV-OC43 A1 (2022FM24435R01E)
MV122 2-yr-aged Antiviral HCoV-OC43 B1 (2023FM03147R01E)
MV122 2-yr-aged Antiviral HCoV-OC43 B2 (2023FM03148R01E)
MV122 Acute Toxicity (GZCPCH221006599)
MV122 Antibacterial A1 (HK-22-007755)
MV122 Antibacterial B2 (52222090083)
MV122 Antifungal A1 (HKGH02953529)
MV122 Antifungal B1 (HKGH02953781)
MV122 Antiviral Feline Calicivirus (TW-2330022)
MV122 Antiviral H1N1 A1 (TW-2330021)
MV122 Antiviral H3N2 A1 (TW-2330020)
MV122 Antiviral HCoV-OC43 A1 (2022FM12226R01E)
MV122 Antiviral HCoV-OC43 B2 (2022FM16467R01E)
MV122 Antiviral SARS-CoV-2 (Omicron) A1 (22KB080103)
MV122 Leaching test (HKGH02937428)
MV122 Non-food contact safety (52223560116)