Biorism 360° - Summary of Tests Conducted

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Year	Category	Product	Laboratory	Objective	Test Method	Organism	Result
2024	Surface	Biorism 360 Surface Disinfectant	UKM UNIPEQ	Bactericidal or fungicidal activity for surface disinfection	EN 1040:2005	*Enterobacter aerogenes*	99.99% of efficacy
						Escherichia coli	
						Pseudomonas aeruginosa	
						Salmonella spp.	
						Staphylococcus aureus	
					EN 1650:2019	*Aspergillus brasiliensis*	
						Candida albicans	
2025	Surface	Biorism 360 Surface Disinfectant	Universiti Malaya	Antimicrobial activity against microorganisms - bactericidal - fungicial - yeasticidal - sporicidial	EN 13727:2012 +A2:2015	ESBL-KP	>99.9999% bactericidal effectiveness after 5, 15, 30 min of contact
						ESBL-EC	
						CREC	
						CRAB	
						CRPA	
						CREB	
						MRSA	
						VRE	99.999% bactericidal effectiveness after 5, 15, 30 min of contact
						CRKP	>99.9999% bactericidal effectiveness after 15 min of contact
					EN 13697:2015+ A1:2019	*Aspergillus niger*	>99.99% fungicidal effectiveness after 15 min of contact
						Candida albicans	>99.9% yeasticidal effectiveness after 15 min of contact
					EN 13704:2018	*Bacillus subtillis*	>99.9% sporicidal effectiveness after 15 min of contact
2025	Surface	Biorism 360 Surface Disinfectant	Biorism Private Lab	Antibacterial activity on plastics and other non porous surfaces	ISO 22196:2011	*Staphylococcus aureus*	>99.9999% bactericidal effectiveness after 24 hours of contact
						Klebsiella pneumoniae	>99.999% bactericidal effectiveness after 24 hours of contact
				Antibacterial activity on steel	ISO 22196:2011	*Pseudomonas aeruginosa*	>99.9% bactericidal effectiveness after 24 hours of contact
				Testing of biocidal of product	Halo test	*Escherichia, coli, Klebsiella pneumoniae, Staphylococcus aureus*	Inhibition growth zone were present for all bacteria
				Presence of Biorism 360	SEM analysis	n/a	Presence of Biorism 360 on stainless steel after 5 days of Biorism 360 disinfectant application
				Detection of H2O2 (active ingredient in Biorism 360)	CUsKit	n/a	Presence of active ingredients on non-porous surfaces after 5 days of Biorism 360 disinfectant application
2025	Linen (Laundry)	Biorism 360 Laundry	SIRIM Malaysia	To evaluate skin irritation on Biorism 360 Laundry using *in vitro* EpiDerm Skin Irritation Test (SIT)	OECD TG 439 (2021), EpiDerm™ (EPI-200-SIT)	n/a	Biorism 360 Laundry is considered as non-irritant to in vitro skin model EpiDerm.

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2025	Textile	Biorism 360 Textile	Biorism Private Lab	Measure antimicrobial efficacy of the antimicrobial fabric sample.	JIS L 1902:2008 / ISO 20743	*Staphylococcus aureus*	The antimicrobial fabric sample demonstrated excellent antimicrobial efficacy (100%) under three conditions: unwashed, after 40 washes, and after 30 days of treatment.
						Escherichia coli	
						Candida albicans	The antimicrobial fabric sample demonstrated excellent antimicrobial efficacy (>99%) under three conditions: unwashed, after 40 washes, and after 30 days of treatment.
2025	Textile	Biorism 360 Textile	Biorism Private Lab	Evaluation of sporicidal activity	EN 13704:2018	*Bacillus subtilis*	Sample demonstrated bacterial reduction greater than 10^3, for the concentration of 8%.
				Dust mite efficacy test for antimicrobial fabric sample	AATCC 194	*Dermatophagoides pteronyssinus*	The antimicrobial fabric sample demonstrated excellent anti-mites efficacy (>99%) under four conditions: unwashed, after 10 washes, after 600 days and after 20 washes, 600 days of treatment.
				To investigate the irritation and sensitisation potential of one test article (dermatological test)	Single blind patch test	n/a	The test article is dermatologically tested and safe to skin.
2025	Linen (Laundry)	Biorism 360 Textile	Universiti Malaya	To quantify the viable microorganisms present under varying washing methods	RLU & CFU	n/a	Biorism 360 Textile eliminated microbes effectively on airline linen. Hospital linen washed by standard procedure showed cross-contamination, needing improved washing protocols.
2025	Linen (Laundry)	Biowash (Biorism 360 Laundry)	Universiti Malaya	To assess Biorism Biowash's effectiveness in maintaining antimicrobial protection up to 48 hours after washing.	RLU & CFU	n/a	Biowash provides effective antimicrobial protection on linen for up to 48 hours.
2025	Linen (Laundry)	Biorism 360 Laundry	Universiti Malaya	To assess the effectiveness of Biorism 360 Laundry on hospital linen at various stages of the laundry process.	RLU & CFU	n/a	Biorism 360 Laundry eliminated microbes on hospital linen effectively after washing, drying and ironing.
2025	Linen (Laundry)	Biowash (Biorism 360 Laundry)	Universiti Malaya	To quantify the viable microorganisms present between standard method and with Biowash.	RLU & CFU	n/a	Biowash enhanced hospital linen decontamination, particulary after drying process due to active disinfection process.
2025	Surface	Biorism 360 Surface Disinfectant	Universiti Malaya	To quantify the viable microorganisms present on environmental surfaces.	RLU & CFU	n/a	Biorism 360 Surface Disinfectant demostrated effective microbial reduction on environmental surfaces, achieving decreases of over 86%.

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2025	Linen (Laundry)	Biorism 360 Textile	Universiti Malaya	To assess the effectiveness of Biorism 360 Textile on hospital linen at various stages of the laundry process.	RLU & CFU	n/a	Laundering supplemented with Biorism 360 disinfection significantly reduced microbial contamination on soiled hospital linen, achieving over a 95% reduction post-laundering and exceeding 99% after one week.
2025	Textile	Biorism 360 Textile	Universiti Teknologi MARA	To evaluate antibacterial activity of fabric coated with Biorism 360 Textile.	Disc diffusion method	*Staphylococcus aureus*	The silica-coated fabric exhibited significant antibacterial activity against S. aureus, with a clear inhibition zone of 19.33 ± 1.16 mm. This suggests that silica nanoparticles impart notable antimicrobial activity.

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CareUs (Biorism 360°) - Summary of Tests Conducted

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Year	Category	Product	Laboratory	Objective	Test Method	Organism	Result
2020	Surface	CareUs	Skanda Life Science	Virucidal activity of disinfectant	ASTM E1053	*H1N1*	99.99% virucidal effectiveness after 60 s contact
2021	Surface	CareUs	AmicoLab	Study of the effectiveness of a disinfectant on a work surface	Quantitative disinfectant surface efficacy test using standard strain	*Staphylococcus aureus*	100% reduction as soon as the product was applied to 72 hours
						Klebsiella pneumoniae	99.8% reduction as soon as the product was applied to 72 hours
2021	Disinfectant	CareUs	Labfit	Virucidal activity evaluation in the medical area	EN 14476:2013+A2:2019	Modified vaccinia virus Ankara (MVA)	>99.99% virucidal effectiveness after 5 min contact
2021	Textile	CareUs	Labfit	Antiviral activity on textile	ISO 18184.2019	Modified vaccinia virus Ankara (MVA)	Antiviral efficacy value > 3 after 1 hour of contact, showing excellent effectiveness
2021	Textile	CareUs	University of Minho	Antibactericidal activity of textile products	EN ISO 22196:2011	*Staphylococcus aureus*	Treated samples showed strong antibacterial activity within 24 hours and up to 48 hours
						Klebsiella pneumoniae	Treated samples showed strong antibacterial activity within 24 hours and up to 7 days
						Escherichia coli	Treated samples showed strong antibacterial activity within 24 hours
2022	Textile	CareUs	University of Minho	Antifungal activity of textile products	EN ISO 13629-2:2014	*Candida albicans*	Treated samples showed strong antifungal activity during 48 hours of contact
						Aspergillus niger	
2022	Formulation	CareUs	Inovapotek	To confirm the absence of acute cutaneous irritation potential (dermatological test)	Double blinded randomized controlled clinical investigation (patch test)	n/a	Dermatologically tested and it was concluded to be non-irritating
2022	Disinfectant	CareUs	Labfit	Evaluation of sporicidal activity	EN 13704:2018	*Bacillus subtilis*	99.9% sporicidal effectiveness after 60 min contact

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2023	Surface	CareUs	University of Minho	Bactericidal or fungicidal activity for surface disinfection	EN 13697:2015 + A1:2019	*Pseudomonas aeruginosa*	>99.9999% bactericidal effectiveness after 60 s contact
						Escherichia coli	
						Staphylococcus aureus	
						Enterococcus hirae	
						Candida albicans	>99.999% yeastcidal effectiveness after 60 s contact
						Aspergillus niger	
2023	Surface	CareUs	University of Minho	Fungicidal or yeasticidal activity for surface disinfection	EN 13624:2013	*Candida albicans*	99.99% yeastcidal effectiveness after 60 s contact
						Aspergillus niger	
2024	Textile	CareUs Breath	University of Minho	Determination of antibactericidal activity of textile products	EN ISO 20743:2013	*Staphylococcus aureus*	Strong antibacterial activity (99.999%) during 24 hours of contact, for all bacteria tested.
						Klebsiella pneumoniae	
2024	Surface	CareUs	Laboratorio Control	Determination of bactericidal activity of surface disinfectant	EN 13727:2012+A2:2015	*Pseudomonas aeruginosa*	99.999% bactericidal effectiveness after 5 min contact
						Escherichia coli	
						Staphylococcus aureus	
						Enterococcus hirae	
2025	Formulation	CareUs	University of Minho	Biofilm formation and development for 48 hours	Dilution - neutralization	*Klebsiella pneumoniae*	99.99% effectiveness of biofilm inhibition after 48 hours of contact

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