



EVIDENCE TABLE

MEDPURE SURGICAL MASKS WITH PUREPURGE TECHNOLOGY EFFICACY REPORTS WITH STANDARDS



MEDPURE	Test	Standard Criteria	Acceptance	Results	Pass/Fail
BARRIER TESTING	Bacterial Filtration Efficiency (BFE)	EN14683 US- ASTM F2101-07	≥95%	99.8%	✓ PASS
	Particle Filtration Efficiency (PFE)	EN14683 US- ASTM F2299	≥30%	89-94%	✓ PASS
	Fluid Retention / Fluid Penetration Resistance	EU: ISO 22609 US: ASTM F1862M-17	2ml sprayed 16.0kPa (120mmHg)	No Penetration	✓ PASS
ANTIBACTERIAL AND ANTIVIRAL EFFICACY	Antiviral Efficacy - H1N1 - A/Puerto Rico/8/1934	ISO 18184:2019	2 log reduction (predicate)	2 log reduction	✓ PASS
	Antimicrobial Efficacy (Klebsiella pneumoniae- ATCC 4352)	BS EN ISO 20743:2013	Antibacterial value ≥2	Antibacterial value >5	✓ PASS
	Antibacterial Efficacy (Staphylococcus aureus ATCC 6538)	ISO 17025	None specified in the standard	>99% Reduction	✓ PASS
	Antibacterial Efficacy (Candida albicans ATCC 10231)	ISO 17025	None specified in the standard	>99% Reduction	✓ PASS
	Antibacterial Efficacy (Escherichia coli ATCC 8739)	ISO 17025	None specified in the standard	>99% Reduction	✓ PASS
PHYSICAL TESTING	Pressure Difference Delta P	US: MIL-M-36954C 4.4.1.1.1	<49 Pa	29 Pa	✓ PASS
SAFETY TESTING	Cytotoxicity	ISO 10993-5:2009	≥70% Cell Viability	95.2% Cell Viability	✓ PASS
	Skin Sensitization (Maximization test)	ISO 10993-10:2010	Dermal Score <1	Dermal Score 0	✓ PASS
	Irritation Test (Animal skin irritation test)	ISO 10993-10:2010	Primary irritation index ≤0.4	Primary irritation index 0.0	✓ PASS
	Flammability Testing	US: 16 CFR part 1610	< 5 sec	<=5 sec	✓ PASS