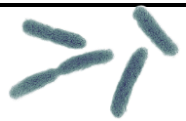
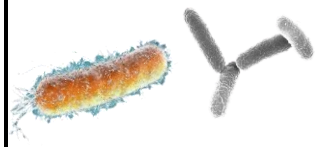
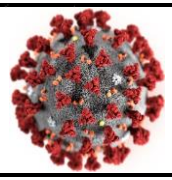
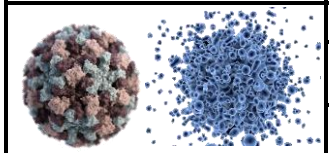
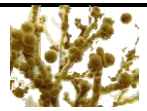
ANTIBACTERIAL AND VIRUCIDAL EFFICIENCY OF FN NANO® TECHNOLOGY

Type		Microorganism	Product	Duration	UV-A Intensity	Reduction
Bacteria		Staphylococcus aureus	FN NANO® 2	60 min	0,05-0,1 mW/cm²	99,999%
			FN NANO® BioMax	5 hours	0,1 mW/cm²	99,999%
			FN NANO® BioMax	5 hours	no light	89,737%
			FN NANO® BioMax	24 hours	no light	97,543%
		MRSA (Methicillin-resistant Staphylococcus aureus)	FN NANO® 2	8 hours	0,05-0,1 mW/cm²	99,490%
			FN NANO® 3	8 hours	0,05-0,1 mW/cm²	98,364%
			FN NANO® BioMax	5 hours	0,1 mW/cm²	95,331%
			FN NANO® BioMax	5 hours	no light	79,519%
			FN NANO® BioMax	24 hours	0,1 mW/cm²	99,999%
			FN NANO® BioMax	24 hours	no light	93,184%
		Escherichia coli	FN NANO® 2	8 hours	0,05-0,1 mW/cm²	99,993%
			FN NANO® 3	8 hours	0,05-0,1 mW/cm²	99,967%
			FN NANO® BioMax	5 hours	0,1 mW/cm²	99,999%
			FN NANO® BioMax	5 hours	no light	99,139%
		Salmonela enterica	FN NANO® 2	8 hours	0,05-0,1 mW/cm²	99,658%
			FN NANO® 3	8 hours	0,05-0,1 mW/cm²	99,865%
		Pseudomonas aeruginosa	FN NANO® 2	120 min	0,05-0,1 mW/cm²	100,000%
			FN NANO® BioMax	5 hours	0,1 mW/cm²	99,999%
		Enterococcus faecalis	FN NANO® 2	120 min	0,1-0,3 mW/cm²	99,999%
		Bacilus subtilis (spores)	FN NANO® BioMax	24 hours	0,1 mW/cm²	90,227%
Virus		SARS-CoV-2; COVID-19	FN NANO® 2	10 min	0,35-0,5 mW/cm²	99,709%
			FN NANO® 2	30 min	0,35-0,5 mW/cm²	99,990%
			FN NANO® 2	60 min	0,35-0,5 mW/cm²	100,000%
		Residual viral COVID-19 RNA copies	FN NANO® 2	120 min	0,35-0,5 mW/cm²	100,000%
		Bakteriofag E.Coli ΦX 174 (model virus)	FN NANO® 2	60 min	0,05-0,1 mW/cm²	99,997%
		Vaccinia virus Ankara (enveloped)	FN NANO® BioMax	24 hours	no light	99,653%
			FN NANO® BioMax	24 hours	0,1 mW/cm²	99,978%
		Murine norovirus (non-enveloped)	FN NANO® BioMax	24 hours	0,1 mW/cm²	99,916%
			FN NANO® BioMax	24 hours	no light	98,797%
Yeast		Candida albicans	FN NANO® 2	120 min	0,05-0,1 mW/cm²	100,000%
			FN NANO® BioMax	24 hours	0,1 mW/cm²	99,826%
Fungi		Aspergillus brasilliensis	FN NANO® BioMax	24 hours	0,1 mW/cm²	90,000%

*tested by independent institutions in the Czech Republic and abroad (State Institute of Public Health, Institute of Public Health Ostrava, Institute of Public Health Ústí nad Labem, University of Nevada, EMSL Analytical and others)