EOS^{CU}™
Preventive | Biocidal Surfaces™

product information

EOS^{CU}'s
IN VITRO and
IN VIVO
Efficacy Data

OVERBED TABLES **SINKS** **VANITIES** **COUNTERTOPS** **WORKSTATIONS** **CUSTOM**

MKF-413E Rev 0717 2025

EPA Registration No. 89674-1
PMRA Registration PCP#32168

IN VITRO **AND** *IN VIVO* **TESTING OF EOS^{CU} | AN EDUCATIONAL SUMMARY***

efficacy results from
independent third-party laboratory testing

INACTIVATION OF *HUMAN CORONAVIRUS*, *FELINE CALICIVIRUS* (EPA-APPROVED HUMAN NOROVIRUS SURROGATE) and *CANDIDA AURIS*

Third-Party Laboratory Testing

In May of 2020, EOS^{CU} was tested against human coronavirus at Microchemlab, an independent, third-party laboratory. Results indicated a 99% reduction in infectious virus at one hour.

In June 2021, EOS^{CU} was also tested against *feline calicivirus* (FCV) at Microchemlab, achieving a 5.50 log reduction (99.9997%) in two hours. FCV is a small, non-enveloped virus, the hardest type to inactivate, and thus indicates a product's efficacy against any known virus.

In the Fall of 2021, EOS^{CU} was tested against one of the leading multi-drug resistant pathogens currently facing healthcare, the fungus *Candida auris*. Results showed a 5.25 log reduction (99.992%) at two hours.

pathogens tested and results*
the efficacy of EOS^{CU}

	Pathogen	Identifier	Test Time	Log Reduction	% Reduction
Fungus	*Candida albicans*	ATCC 10231	2 hrs	6.38	100.000%
	Candida auris	CDC AR-Bank #0385	2 hrs	5.25	>99.992%
Bacteria	*Carbapenem-resistant (CR) Klebsiella pneumoniae (CRKP)*	ATCC 10002	2 hrs	6.18	99.9999%
	Pseudomonas aeruginosa	ATCC 15442	2 hrs	5.34	99.9927%
	Enterobacter aerogenes	ATCC 13048	2 hrs	3.95	99.9887%
	ESBL Escherichia coli	ATCC BAA-196	2 hrs	3.79	99.9835%
	Extended Spectrum Beta Lactamase (ESBL) Klebsiella pneumoniae	ATCC 70063	2 hrs	3.38	99.9572%
	Methicillin-resistant Staphylococcus aureus (MRSA)	ATCC33591	2 hrs	3.50	99.9718%
	Multi-drug resistant (MOR) Acinetobacter baumannii	ATCC BAA-1605	2 hrs	5.90	99.9999%
	Staphylococcus aureus	ATCC 6538	2 hrs	5.86	99.9999%
	Vancomycin-resistant Enterococcus faecium (VRE)	ATCC 51559	2 hrs	3.32	99.9500%
Virus	Feline calicivirus (EPA-approved human norovirus surrogate), F-9 strain	ATCC VR-782	2 hrs	5.50	99.9980%
	Human Coronavirus, Strain 229E	ATCC VR-740	1 hr	2.72	99.0000%

***Disclaimer:** The information in this table is intended to serve as an educational tool and not a marketing document. EOS does not make public health claims about viruses and spores and aims to remain transparent regarding the requirements for each EPA claim while still providing its employees and customers with clear, scientific facts for better understanding of the testing and potential impact of our surfaces. This material has been created at the direct request of physicians and infection preventionists with whom we work and all recipients are informed of the purpose behind them. It is not intended for general public use and shall not be disseminated, copied, published or disclosed to any party other than the intended recipient without the written permission of EOS Surfaces.

independent third-party research from
peer-reviewed journals

REDUCTION IN HAI RATES: TRIALS ON THE IMPACT OF EOS^{CU}

Reduced health care-associated infections in an acute care community hospital using a combination of self-disinfecting copper-impregnated composite hard surfaces and linens
Published in *American Journal of Infection Control*
78%-83% Reduction in HAIs due to MDROs, C. difficile

Analysis of the role of copper impregnated composite hard surfaces, bed linens and patient gowns in reducing healthcare-associated infection rates
Published in *International Journal of Infection Control*
Further analysis of initial HAI study with additional data confirming results

Effect of Self-Sanitizing Copper Impregnated Surfaces on HAI Rates
Presented at *2023 Association for Professionals in Infection Control and Epidemiology Conference*
74% reduction in blood infections and pneumonias, 40% reduction in UTIs, 30% reduction in surgical site infections and 15% reduction in C. difficile infections

NOTE: *Data collected during height of COVID*

REDUCTION IN BIOBURDEN: TRIALS IN BACTERIA

Self-sanitizing copper-impregnated surfaces for bioburden reduction in patient rooms
Published in *American Journal of Infection Control*

81% Reduction in bioburden
Research led to investigator receiving NIH R01 Grant

Efficacy of copper-impregnated antimicrobial surfaces against *Clostridiodes difficiles* spores
Published in *Infection Control and Hosptial Epidemiology*
Spores were reduced by 97% on clean surfaces, and by 92% on soiled surfaces (organic material to simulate a real-world spill event).

REDUCTION IN BIOBURDEN: TRIALS IN VIRUSES

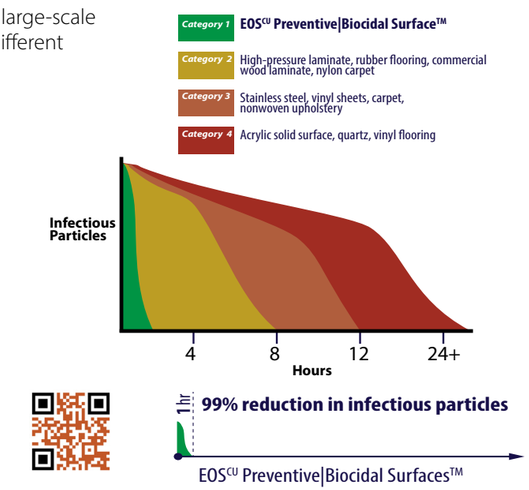
SARS-CoV-2 viability on 16 common indoor surface finish materials
Published in *HERD: Health Environments Research & Design Journal*

In February of 2021, Baylor University released the results of a large-scale study measuring how long SARS-CoV-2 could survive on 16 different surfaces commonly found in healthcare facilities.

EOS^{CU} outperformed all other surfaces, with no detectable virus at the first sample time of 4 hours.

Stainless steel (Category 3) and solid surfaces (Category 4) performed the poorest by far, with detectable, infectious viral recovery at 24 hours.

The 3 most commonly used materials in both healthcare and high-traffic, public spaces - laminate, stainless steel and acrylic solid surface - performed worst, allowing SARS-CoV-2 to remain actively infectious for 8, 12 and 48 hours.



eos^{cu} patient overbed table with low profile base

PREVENTIVE BIOCIDAL SURFACES

Lowest Profile on the Market

Fits under ***any*** patient bed
Compatible with: beds with the 5th wheel, battery packs, stretchers and patient room seating
Exposed steel; no plastic cover allows for easy cleaning of base and casters

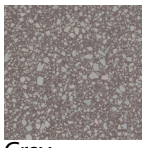
Patent No. 16/924,429

Base and top have been tested for safety and functionality and should not be used separately.

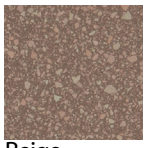
Infection Control Features of Base

Nonporous
Seamless
Heat resistant
Stain resistant
Easy to clean
Easy to maintain
Meets SCS IAQ Standards

Available EOS^{cu} Tabletop Colors



Grey



Beige

Available Base Colors

Almond

ECU050BEI005-001 *(w/ Beige Top)*
ECU050GRY005-001 *(w/ Grey Top)*

Graphite Grey

ECU050BEI005-002 *(w/ Beige Top)*
ECU050GRY005-002 *(w/ Grey Top)*

Nevada

ECU050BEI005-003 *(w/ Beige Top)*
ECU050GRY005-003 *(w/ Grey Top)*

Dimensions

Table Top**	35″ L x 18″ W
Base Height**	28″ Low to 44″ High
Weight	55.7 lbs.

**Top and base are NOT sold separately.

U-Shape Base Option

Standard option.
Fits under all bed types.

Patient Recliner Table Series
H-Shape | C-Shape** Base Options

Designed for use with recliners and other scenarios.
Discuss with EOS prior to submitting solicitation to ensure best fit.

After discussing with an EOS^{cu} Team Member, add -H or -C to the end of the part number for an H- or C-shaped base selection.

All base options come standard with non-locking casters. **Locking casters are available on any base option.** Add - L to the end of the part number to indicate desire for locking casters option.