



# Biomaster

Antimicrobial Technology

## Antimicrobial Test Report

**Study report:** Determination of the Antimicrobial Activity of  
AtlasDesign wiring devices range  
against Escherichia  
coli and Staphylococcus aureus

**Client:**

GERMANY (for Potencial plant, 1st Bystrova street,  
Kozmodemyansk, Russia, 425350 brand Schneider  
Electric)

**Report No.** 1034445.19/11836

**Dated:** 8th January 2018

# Study report

## Summary of Study

To determine the efficacy of Biomaster Antimicrobial Technology, submitted samples

**Test Method:** ISO 22196:2011

**Laboratory:** Industrial Microbiological Services Ltd.

**Certificate No.** 1034445.19/11836

## Summary of Procedure

Samples were tested to ISO 22196:2011. This method is a quantitative test designed to assess the performance of antibacterial properties on hard, non-porous surfaces.

Submitted samples are challenged against stock cultures of *S.aureus* and *E.coli* purchased from ATCC.

Samples are inoculated using a known amount of the above cultures and incubated for 24 hours at 35°C according to ISO 22196:2011. TVC (Total Viable Count) of bacteria are then recorded and the percentage of reduction is calculated.

All testing is carried out independently at Industrial Microbiological Services Ltd.



***Staphylococcus aureus** is a Gram-positive cocci bacterium that is a member of the Firmicutes,. It is frequently found in the human respiratory tract and on the skin.*



***Escherichia coli** is a Gram-negative, facultatively anaerobic, rod-shaped bacterium of the genus Escherichia. It is commonly found in the lower intestine of warm-blooded organisms.*

# Study report

## Test results

The table below shows the results recorded by Industrial Microbiological Services Ltd using the ISO 22196:2011 standard.

Sample	Species	Contact time		Reduction
		0hrs	24hrs	
AtlasDesign wiring devices range white color	E.coli	1.6E+04	< 11.11	≥3.35 ≥99.95%
AtlasDesign wiring devices range white color	S.aureus	1.8E+04	< 11.11	≥3.41 ≥99.96%

## Conclusion

From the results it was seen that when incorporating into the AtlasDesign range white color excellent results were achieved and antimicrobial testing passed.

