

MICROBIOLOGICAL ACTIVITY TEST

This report describes the results of testing was carried out to verify the effectiveness of our device in the abatement of microorganisms as a function of time.

DEVICE: Profilo PRO ALPHA

DISTANCE: 1 m

TEST CULTURE: Escherichia Coli ATCC 8739

TESTS CARRIED OUT: Uncontaminated sample
Untreated contaminated sample
Treated sample 2 hours
Treated sample 4 hours
Treated sample 8 hours

TREATED SAMPLE 2h				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	120000 CFU/cm ²	13000 CFU/cm ²	ISO 18593:2018 (escl. Cap. 6 e 7) + UNI ISO 16649-2:2010	89,17%
TREATED SAMPLE 4h				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	120000 CFU/cm ²	1800 CFU/cm ²	ISO 18593:2018 (escl. Cap. 6 e 7) + UNI ISO 16649-2:2010	98,50%
TREATED SAMPLE 8h				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	120000 CFU/cm ²	0 CFU/cm ²	ISO 18593:2018 (escl. Cap. 6 e 7) + UNI ISO 16649-2:2010	100,00%

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DEVICE: Profilo PRO ALPHA

DISTANCE: 2 m

TEST CULTURE: Escherichia Coli ATCC 8739

TESTS CARRIED OUT: Uncontaminated sample
Untreated contaminated sample
Treated sample 2 hours
Treated sample 4 hours
Treated sample 8 hours

TREATED SAMPLE 2h				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	650000 CFU/cm ²	820 CFU/cm ²	ISO 18593:2018 (escl. Cap. 6 e 7) + UNI ISO 16649-2:2010	99,87%
TREATED SAMPLE 4h				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	650000 CFU/cm ²	400 CFU/cm ²	ISO 18593:2018 (escl. Cap. 6 e 7) + UNI ISO 16649-2:2010	99,94%
TREATED SAMPLE 8h				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	650000 CFU/cm ²	300 CFU/cm ²	ISO 18593:2018 (escl. Cap. 6 e 7) + UNI ISO 16649-2:2010	99,95%