



TEST REPORT

n° 202003

Dear
 STE – Sanitizing
 Technologies and
 Equipment
 Via Roma, 87
 61020 PETRIANO (PU)

c.a. Federica Calderini

Date of issue: 28/07/2020**Sample Description:** Proof of effectiveness SWORD [total] E.Coli ATCC 8739

of the: 17/06/2020

Identified with : Blank (uncontaminated) - Reference (untreated) - Treated 10 s. - Treated 30 s. - Treated 60 s.**Sample Receipt Date :** 17/06/2020**Start date tests :** 21/07/2020**End date tests :** 28/07/2020**Sample number:** 202003/1 **Identified as :** Blank (uncontaminated)

Test performed	Result	U.M.	Method
Escherichia coli beta glucuronidase positive (count)	0	ufc/300cm ²	ISO 18593:2018 (Excl. Cap.6 e 7)+UNI ISO16649-2:2010

Sample number: 202003/2 **Identified as :** Reference (untreated)

Test performed	Result	U.M.	Method
Escherichia coli beta glucuronidase positive (count)	51'000 [4,71 log]	ufc/300cm ²	ISO 18593:2018 (Excl. Cap.6 e 7)+UNI ISO16649-2:2010

Sample number: 202003/3 **Identified as :** Treated 10 s.

Test performed	Result	U.M.	Method
Escherichia coli beta glucuronidase positive (count)	30'000 [4,48 Log]	ufc/300cm ²	ISO 18593:2018 (Excl. Cap.6 e 7)+UNI ISO16649-2:2010

Sample number: 202003/4 **Identified as :** Treated 30 s.

Test performed	Result	U.M.	Method
Escherichia coli beta glucuronidasi positivi (conta)	4'800 [3,68 Log]	ufc/300cm ²	ISO 18593:2018 (Excl. Cap.6 e 7)+UNI ISO16649-2:2010

Sample number: 202003/5 **Identified as :** Trattato 60 s.

Test performed	Result	U.M.	Method
Escherichia coli beta glucuronidase positive (count)	1'260 [3,10 Log]	ufc/300cm ²	ISO 18593:2018 (Excl. Cap.6 e 7)+UNI ISO16649-2:2010



Laboratorio Gamma

studio associato

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This Test Report only covers the following samples:

202003/1 - 202003/2 - 202003/3 - 202003/4 - 202003/5



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- The results refer only to the objects tested as received.
- Estimated: n° of cfu so low that it does not have a calculable precision - I. M. = internal method
- Sampling is carried out by the customer or by third parties and the laboratory is not responsible for this activity.
- This test report may not be reproduced in part without Gamma Laboratory approval.
- The sample, unless requested by the customer, is kept for a period of 15 days from the date of the test report.
- The laboratory is responsible for all information in this document except that provided by the customer regarding sampling and sample description.
- Registration in the Regional List of Laboratories That Carry Out Analyses as Part of the Self-Control Procedures of Food Enterprises Emilia-Romagna Region n° 008/RE/004
- Authorized by the Ministry of Health on 01/09/14 for the analysis of medicated feed and intermediate products.

The Supervisor



The Technical Director



MICROBIOLOGICAL ACTIVITY TEST

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

DEVICE: Sword

DISTANCE: 6 cm

TEST CULTURE: Escherichia Coli ATCC 8739

TESTS CARRIED OUT:

- Uncontaminated sample
- Untreated contaminated sample
- Treated sample 10 seconds
- Treated sample 30 seconds
- Treated sample 60 seconds

TREATED SAMPLE 10s				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	51000 CFU/cm ²	30000 CFU/cm ²	ISO 18593:2018 (Excl. Cap. 6 and 7) + UNI ISO 16649-2:2010	41,18%
BEHANDELTE PROBE 20s				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	51000 CFU/cm ²	4800 CFU/cm ²	ISO 18593:2018 (Excl. Cap. 6 and 7) + UNI ISO 16649-2:2010	90,59%
TREATED SAMPLE 30s				
TEST CULTURE	INITIAL CONCENTRATION	FINAL CONCENTRATION	METHOD	PERCENT REDUCTION
Escherichia Coli ATCC 8739	51000 CFU/cm ²	1260 CFU/cm ²	ISO 18593:2018 (Excl. Cap. 6 and 7) + UNI ISO 16649-2:2010	97,53%