

Certified translation TP/467/2020 from Polish to English of a document submitted for translation on 23.04.2020.-/-

Translation date: 23.04.2020. -/-

Translator's notes in square brackets [] -/-

REPORT No. DZ/09A/04/20

REPORT CONSISTS OF 2 NUMBERED PAGES

Results of tests performed refer exclusively to the objects tested -/-

The report of tests may not be reproduced otherwise than in its entirety without a written consent of the Laboratory. -/-

Determining antibacterial activity using the quantitative method according to PN-EN ISO 20743:2013-10 -/-

A. Information details of the research laboratory: -/-

LAB-TEST LABORATORIUM Civil Partnership [S.C.]; 40-868 KATOWICE, ul. Piastów 6;
Tel./Fax: (32)203-63-42 -/-

B.1. Identification details of samples: -/-

Sample 1 – towel of ZZ type, material bleached waste paper, number of layers 2, number of nano Ag 25 ppm -/-

Control sample 1 - towel of ZZ type, material bleached waste paper, number of layers 2, number of nano Ag none -/-

The sample was not sterilised. The general number of mesophilic aerobic microorganisms was determined in accordance with PN-EN ISO 21149:2017-07 and PN-EN ISO 16212:2017-08. -/-

A sample of the mass of test carrier was shaken from 10 ml of neutraliser, whereupon 1 ml was used for inoculation. -/-

| Sample designation | Number of colony forming units / 1 ml of neutraliser |
|--------------------|--|
| Sample 1 | 0 colony forming units |

2. Series bd -/-

3. Producer/distributor OLMAR -/-

4. Date sample provided for testing 25.03.2020 -/-

5. Storage conditions room temperature -/-

C. Test conditions -/-

1. Test period 25.03.2020 - 02.04.2020 -/-

2. Contact duration 24 hours ± 15 min -/-

3. Contact temperature 37°C ± 1°C -/-

4. Neutraliser bullion D/E (Difco) -/-

5. Incubation temperature 37±1°C; liquid culture -/-

6. Strains used for testing Staphylococcus aureus ATCC 6538 -/-

D. Results are presented in table 1. -/-

E. Conclusion: see page 2 -/-



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[Rubber stamp]: LAB-TEST LABORATORIUM Civil Partnership [S.C.]; -/-
ul. Piastów 6, 40-868 Katowice -/-
NIP tax identifier: 834-17-92-057 -/-
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[Rubber stamp]: Laboratory Manager -/-
Piotr Grudziński, Master's Degree

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Page 1/2 -/-

[Page 2 of the document] -/-

TABLE 1 -/-

Results of the test using quantitative method according to PN-EN ISO 20743:2013-10 -/-
duration: 24 hours -/-

measurement method: plate counting method -/-

| | |
|---|--|
| test/name of strain | Staphylococcus aureus ATCC 6538 |
| concentration of inoculum colony forming unit/ml | 2.5×10^5 ; volume of applied inoculum: 0.2 ml |
| CONTROL 1 | |
| recovery for $t = 0$, in log of colony forming unit | $C_0 \text{ max} = 4.41$; $C_0 \text{ min} = 4.37$; difference 0.04; mean value $C_0 = 4.39$ |
| CONTROL 2 | |
| recovery for $t = 24 \text{ h}$, in log of colony forming unit | $C_t \text{ max} = 5.61$; $C_t \text{ min} = 5.50$; difference 0.11; mean value $C_t = 5.55$ |
| Sample tested | mean value $T_0 = 4.43$; mean value $T_t = 0.00$ Increase: $T_t - T_0 = -4.43$ Control increase: $C_t - C_0 = 1.16$; Antibacterial activity: $(C_t - C_0) - (T_t - T_0) = \underline{5.59}$ |

E. Conclusion: -/-

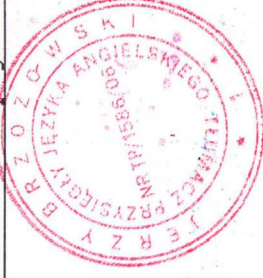
Value of antibacterial activity for plate counting method (inoculation) in test conditions according to PN-EN ISO 20743:2013-10 in relation to control after 24 hours, in log: -/-

| | |
|--|------------------------------------|
| SAMPLE | Staphylococcus aureus ATCC 6538 |
| Sample 1 – towel of ZZ type, material bleached waste paper, number of layers 2, number of nano Ag 25 ppm | 5.59 |

Authorised by: Laboratory Manager -/- illegible signature.

Dated 06.04.2020 at Katowice.

Translation page: 2. of 3.



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Page 2/2 -/-

END OF TRANSLATION

REPERTORY: No. 467/2020.....
I, Jerzy Brzozowski, sworn translator of English, No. 1586/06, hereby certify
that this is an accurate translation of the Polish document.
Dated: 23.04.2020..... Signature: [Signature]



[Signature]