

Translation from Bulgarian into English

PROTOCOL NO. 20

Re: microbiological testing for bactericidal properties of a paint, assigned by the company "Orgachim" JSC, town of Ruse

1. Materials – a sample of the product – "LEKO SILVER" ("SPOR VOPSEA SUPERLAVABILA PENTRU INTERIOR CU IONI DE ARGINT") was delivered to the "Microbiology" lab.

2. Purpose – determining the bactericidal properties of the paint.

3. Method – the efficiency of the paint is tested in accordance with the antibacterial test JIS Z 2801:2000.

Method principle: the tested paint is applied in two coatings on glass plates. After it has dried, the bacterial suspensions of test strains are applied (*S.aureus* ATCC 6538, *E.coli* ATCC 10536) and are covered with sterile covering glass. Incubation for 24 h at $T = (30 \pm 1)^\circ\text{C}$. The number of surviving cells is determined quantitatively.

The initial dose of the test strains (control of the inoculum) is determined by means of tests – through sowing on agar medium.

4. Results – reported in a table:

Tested material	Quantity of viable cells (KOE/cm ³) at:	
	<i>S.aureus</i>	<i>E.coli</i>
"LEKO SILVER" ("SPOR VOPSEA SUPERLAVABILA PENTRU INTERIOR CU IONI DE ARGINT")	< 10	< 10
Control of the inoculum	2,5.10 ⁸	1,3.10 ⁸

The results obtained from the testing show over 99,99% reduction of bacterial cells of *E.coli* and of *S.aureus*.

5. Conclusion: The conducted microbiological testing of "LEKO SILVER" ("SPOR VOPSEA SUPERLAVABILA PENTRU INTERIOR CU IONI DE ARGINT"), assigned by the company "Orgachim" JSC, town of Ruse, show that the paint has bactericidal properties.

Head of "Microbiology" laboratory: <signed>

/Senior Researcher, Dr. L. Chipilska/

<stamped with the round seal of Laborex-EAD, Sofia>

LABOREX-EAD

Ref.No. 1141-52/06.02.10

Incoming No.

The undersigned Tsvetelina Bogomilova Bogdanova do hereby certify that this is a true and correct translation I have made from Bulgarian into English of the document attached hereto. The translation includes 1 page.

Translator: /Tsvetelina Bogomilova Bogdanova/

