

Protocol of testing of microbial effect of nanotextiles PA6 with nanosilver additive[®]

Notice: a sample of tested polymer PA6 was prepared from base concentration of 4.000 ppm by mixing with raw material PA6 to final tested concentration of 160 ppm.

Used microorganisms: **S. aureus CCM 4516, Streptococcus salivarius (field strain)**

Procedure: 0,5 g sample was placed into solutions containing test microorganisms (*S. aureus* and *Streptococcus salivarius*) concentrated 10^4 CFU/1 ml. The overall quantity of microorganisms was being determined at the beginning of the test; in the 1-st; 7-th and 24-th hours. Incubation at 35°C /48 hours. Concurrently a negative check was performed: instead of a sample, a physiological solution was placed into the solution containing test microorganisms.

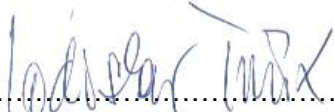
Staphylococcus aureus CCM 4516

SAMPLE	quantity of microorganism CFU / 1ml			
	microorganism: <i>Staphylococcus aureus</i> CCM 4516			
	hour of determination of overall quantity of microorganisms			
	0.	1.	7.	24.
L 1016	$7,8 \times 10^4$	$2,4 \times 10^4$	$4,5 \times 10^3$	10
Negative check	$7,9 \times 10^4$	$7,9 \times 10^4$	$7,7 \times 10^4$	$7,6 \times 10^4$

Streptococcus salivarius (field strain)

SAMPLE	quantity of microorganism CFU / 1ml			
	microorganism: <i>Streptococcus salivarius</i>			
	hour of determination of overall quantity of microorganisms			
	0.	1.	7.	24.
L 1016	$1,1 \times 10^4$	$6,1 \times 10^2$	$1,1 \times 10^2$	0
Negative check	$1,4 \times 10^4$	$1,4 \times 10^4$	$1,3 \times 10^4$	$1,2 \times 10^4$

In Dobra, April 24-th.,2020


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NanoTrade s.r.o.