

• • , • • , • • , • • ,

1,8- , , -

*S. aureus* *E. coli.*  
0,02 0,000032 /  
*S. aureus* *E. coli.*

0,02 /

10 % [1].  
2010 ., 1500

( ) [2].

40% [3].

[4-7].

[8].

(LiCL), B-RKM 0470 : *Staphylococcus aureus*  
0447, *Escherichia coli* B-RKM  
(TerCl),  
(EOAGla),  
(EOMPip),  
(EOTRas),  
(EOZCl), 90%-  
(EOTMar), 1:5.  
(EOAFru) *S. ureus* *E.*  
(Lim), 1,8- (Cin), *coli*,  
(Tim). 0,02; 0,004;

0,0008; 0,00016; 0,000032 / 37° . 2, 3, 18 24  
( )

100 [9].  
: *S. aureus* -  
21,0×10<sup>10</sup> / , *E. coli* - 11,5×10<sup>9</sup> *S. aureus* 5%-  
/ .

*S. aureus* *E. coli* .  
(Hi-Media, ). 37°  
24-48 .

*S. aureus* *E. coli* ,  
[10].  
0,02; 0,0008; 0,000032  
/ . *E. coli*

(1  
*S. aureus* )  
*E. coli* ,  
100 0,02;  
0,004; 0,0008; 0,00016; 0,000032 / .

3- , (1  
 ) *E. coli*  
36°

1 . 36° 1 .  
[11].

*S. aureus* *E. coli* *E. coli* ,  
[9].

*S. aureus* , 0,02;  
( « » , 0,004; 0,0008; 0,00016; 0,000032 / .  
1:5 , (1

0,5 ) *E. coli* .  
100 .  
36° 1 .

[12].



	-	25,5±1,50 (10 <sup>10</sup> )	21,0±1,0 (10 <sup>10</sup> )	31,5±3,50 (10 <sup>10</sup> )
	-	3,0±0,50 (10 <sup>10</sup> )	7,0±1,0 (10 <sup>10</sup> )	26,0±1,0 (10 <sup>10</sup> )
1,8-	-	9,0±1,0 (10 <sup>10</sup> )	35,0±2,0 (10 <sup>10</sup> )	26,0±1,0 (10 <sup>10</sup> )
-	-	8,0±1,0 (10 <sup>10</sup> )	12,5±1,0 (10 <sup>10</sup> )	28,5±1,50 (10 <sup>10</sup> )
	-	-	18,5±1,50 (10 <sup>10</sup> )	28,5±1,50 (10 <sup>10</sup> )
* <0,05 - ±m (n=3)				

1, 1,8- ,  
-  
*S. ureus*, , *coli* , *E.*  
- 0,000032 / ,  
2  
.  
0,0008 / ,  
.  
1,8-  
0,02 /  
*E.coli*,  
,  
*S. ureus*, ,  
- 0,02  
19,5±0,78 *E. coli*  
/  
(10<sup>10</sup>).  
*E. coli*  
.  
2, ,  
, ,  
, ,  
, ,  
2

0,0008  
 / , 2,5±1,50 (10<sup>6</sup>),  
 4  
 2 0,0008 / 0,000032  
 / 0,000032 / .

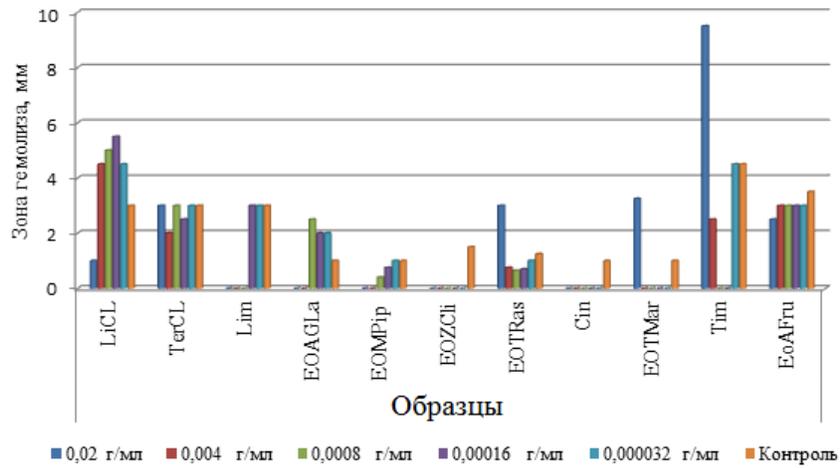
2 – *E. coli* ,

	, /			
	0,02	0,0008	0,000032	
-	-	18,0±5,0 (10 <sup>10</sup> )	27,5±2,50 (10 <sup>10</sup> )	2,0±1,0 (10 <sup>8</sup> )
- -	-	2,5±1,50 (10 <sup>6</sup> )	21,0±1,0 (10 <sup>10</sup> )	2,0±1,0 (10 <sup>8</sup> )
	11,5±0,50 (10 <sup>10</sup> )	14,5±0,50 (10 <sup>10</sup> )	10,5±0,50 (10 <sup>10</sup> )	8,2±0,85 (10 <sup>10</sup> )
	-	1,5±0,50 (10 <sup>6</sup> )	27,0±2,0 (10 <sup>6</sup> )	30,5±0,50 (10 <sup>10</sup> )
	-	6,5±1,50 (10 <sup>6</sup> )	8,0±4,0 (10 <sup>6</sup> )	30,5±0,50 (10 <sup>10</sup> )
	-	26,0±1,0 (10 <sup>10</sup> )	31,0±1,0 (10 <sup>10</sup> )	31,5±0,50 (10 <sup>10</sup> )
	-	27,5±3,50 (10 <sup>10</sup> )	34,5±2,50 (10 <sup>10</sup> )	31,5±0,50 (10 <sup>10</sup> )
	-	37,5±2,50 (10 <sup>10</sup> )	12,0±1,0 (10 <sup>10</sup> )	8,0±3,0 (10 <sup>10</sup> )
1,8-	-	27,5±2,50 (10 <sup>10</sup> )	17,5±2,50 (10 <sup>10</sup> )	8,0±3,0 (10 <sup>10</sup> )

-	10,5±0,50 (10 <sup>10</sup> )	10,5±0,50 (10 <sup>10</sup> )	11,5±0,50 (10 <sup>10</sup> )	10,5±0,50 (10 <sup>10</sup> )
	-	-	-	10,5±0,50 (10 <sup>10</sup> )
* <0,05 - ±m (n=3)				

1 2, , ,  
0,02 /  
*E. coli* *S. aureus*  
(*E. coli*), LiCL, TerCl, EOAGla, EOMPip,  
(*S. aureus*). EOTRas, EOZCli, EOTMar, Cin, Tim.

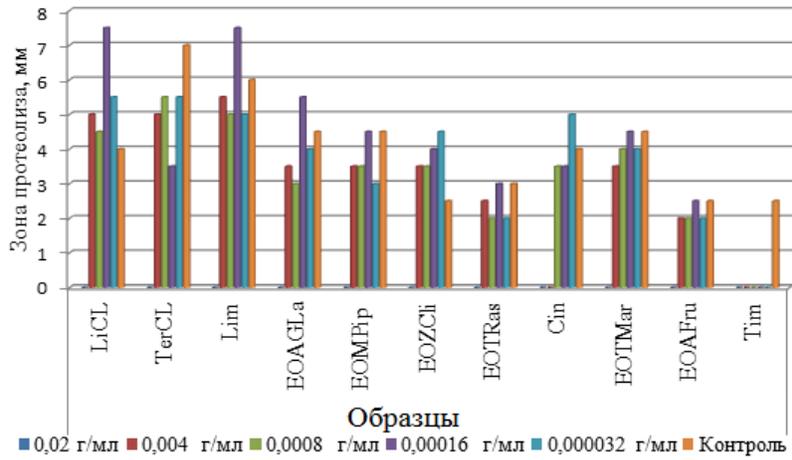
*S. aureus*  
*E. coli*  
0,004-0,0008-  
*S. Aureus* 0,00016-0,000032 / .  
LiCL,  
TerCl, Lim, EOAGla, EOMPip *S. aureus*  
*S.*  
*aureus* 2, 3, 6, 18 24 LiCL, TerCl, Lim, EOAGla,  
EOMPip, E ZCli, E TRas, Cin,  
EOTMar, Tim, E AFru  
*S. aureus*,  
E ZCli  
EOTRas, EOZCli, Cin, EOTMar, Tim, Cin  
EOAFru *S. ureus*,  
*S.* EOTMar  
*aureus* , 24 0,02 /  
3,25 ( . 1).



1 -

*S. aureus*

Cin, EOAFru Tim  
*E. coli*,  
 LiCL, TerCl, Lim,  
 EOAGla, EOMPip, EoZcli, E TRas,  
 Cin, EOTMar, Tim, E AFru  
*S. aureus*  
 Lim, EOAGla EOMPip  
*S. aureus*, E Zcli  
 Cin 0,02 /  
*S. aureus*, 0,004-0,000032 /  
 EOTMar ( . 2). Tim  
 0,02 / 3,25 ,  
 E TRas 2 ,  
*E. coli* EOAFru  
 0,004, 0,0008, 0,000032  
 LiCL, TerCl, Lim, EOAGla, / EOTRas  
 EOMPip, EOTRas, EOZcli, EOTMar, 0,0008, 0,000032 / .



2 -

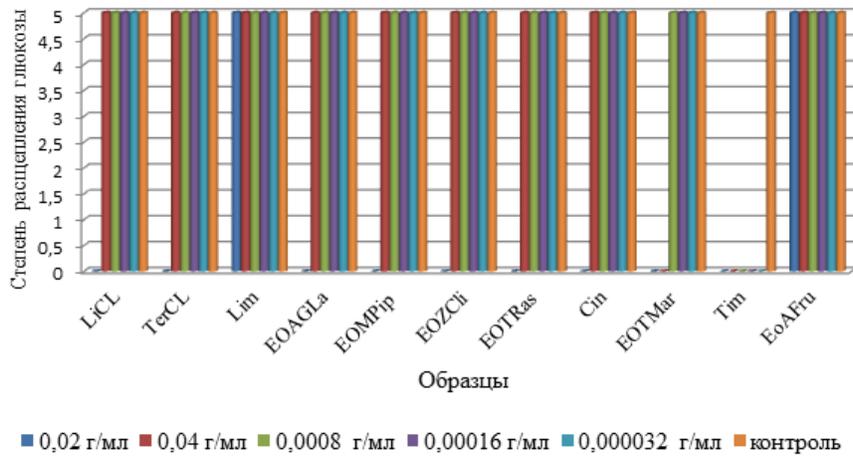
*E. coli*

*E. coli*

LiCL, 0,02 / ,  
 TerCl, Lim, EOAGLa, EOMPip, EOTRas, Lim EOAFru.  
 EOZcli, EOTMar, Cin, EOAFru, Tim Tim

*E. coli*

*E. coli*  
 ( .3).



3 -

*E. coli*

:  
 (LiCL), (TerCl), (EOAGLa),

(EOMPip), (E ZCli) 1,8- (Cin),  
 (EOTRas), (EOZCli), (Lim),  
 (EOTMar), (EOAGLa)  
 (EOAFru) (EOMPip).  
 (Lim), 1,8- (Cin), (LiCL),  
 (Tim). (TerCL)  
*E. coli* *S.* (E AFru)  
*aureus.* *S. aureus.*  
 ( *E. coli* 2  
 / (Tim),  
 (Lim) .  
 (EOAFru) *E. coli*  
 (*E. coli*, 2 /  
*S. aureus*). (Lim) ,  
*E.coli* *S.aureus* (EOAFru). (Tim)  
 : (LiCL),  
 - (TerCl), *E. coli*  
 (EOAGLa),  
 (EOMPip), *in vitro*  
 (EOTRas),  
 (EOZCli),  
 (EOTMar),  
 1,8- (Cin) (Tim). ,  
 , ,  
*aureus* *S.* , ,  
 (EOAGLa) , ,  
 (EOMPip) 1,8- ( ,  
 . *S.* )  
*aureus* *S. aureus, E. coli,*

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1. 1960. - .3. - .93-138.
2. . - : . - 2012. - 239 .
3. [ .  
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Subtilis-mesentericus , 1980. - 28 .
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*S.aureus*      *E.coli*

0,02 – 0,000032 /

0,02 /

## Summary

Results of studying samples of essential oils of *Artemisia glabella* Kar. et Kir, *Mentha piperita* L., *Thymus rasitatus* Klok., *Schultzia crinita* (Pall.) Spreng, *Thymus Marschallianus* Willd, *Ajania fruticulosa* (Ledeb.), as well Poljak, their basic components such as limonene, 1,8-cineole, thymol, chlorinated limonene and tetrachloride polycarbon -terpinene against *S. aureus* and *E. coli* are presented in the article. Samples were studied in various concentrations from 0.02 till 0.000032 g/ml on viability and biological properties of *S. aureus* and *E. coli*. In order to define influence of samples on viability, proteolytic and enzymic activity of microorganisms to be stated to study samples in concentration of 0.02 g/ml inhibited the cell growth of tested strains. The received results of research testify that samples possess the strong antimicrobial action.