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- 2 ,

() . . . , [7],

[4] 20% / -

67% - ,

[7] , -

[9] ,

(()) - (5-15 / .) -

() 92 -

[10] , 112, , 3 . -

12- , () -

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Merck & Co. 2004 . [3]

() . - [5]

10 / 18 [4, 8]. 5- 1 - -

17 [6] . -

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[7, 9]. -

		(), 30 /	, 8 /
		/	, %
	60,2±1,3	61,2±1,5	58,3±1,2
1	84,2±3,2*	79,2±1,5# / 25%	9,3±3,3*/** / 54%
5	84,7±2,4*	84,3±2,5# / %	57,9±4, ** / 102%
7	80,5±3,1*	83,5±1,8# / -10%	75,8±2,9* / 14%
9	82,2±2,4*	83,0±2,3# / 1%	9,8±3,5*/** / 48%
11	78,1±2,3*	77,2±2,9# / 11%	8,8±1,8*/** / 41%
13	78,3±2,9*	77,0±2,8 / 13%	70, ±2,2** / 32%
15	78,3±1,8*	7 ,2±2,7 / 17%	9,1±2,0*/** / 40%
19	78,5±2,7*	58,7±5,8** / 114%	,2±4,0** / 57%
22	75,5±2,7*	54,2±5,1**# / 14 %	,3±3,7** / 48%
, %	-	3 %	48%

- ; (<0,05): * - ; ** - ;

1:15 , . . . , - - - () - , - , - , - , - .) . - 2- - () . . . , . . . 180-220 . - [1]. ± - 0,1 [1]. - - 1 - 1-2 22 - - , 30 / , [3]. 50= 8 / . (15 , () : - (), (), (), (. 1). , () (- 1 15 - - [1]. , 19 22 () , 1, 5, 7, 9, 11, 13, 15, 19 22 . - : , 12 (36%, - 48%. 22 [1]. [2]. . 2 , - 12 2,7 ,

(= 6)

(. 2).

	, 10 ⁹ /		
		12	22
	11,4±1,2	12,1±0,9	11,0±1,0
	11,2±0,9	30,3±1,2*	27,0±2,6*
()	12,3±1,4	9,9±0,40**/#	15,0±1,1**
	13,4±1,1	16,1±0,9**/**	14,0±1,3**
	, /		
	3,7±0,5	4,1±0,6	3,8±0,8
	4,2±0,4	12,8±0,9*	9,6±1,0*
()	3,5±0,6	5,0±0,8**	4,5±1,3**
	3,1±0,3	6,9±0,9**	2,5±0,4**

(<0,05):

* - ; ** - ;
- ;

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			()	
, /	1,66±0,15	2,91±0,24*	1,63±0,15**	1,51±0,24**
, /	2,80±0,11	4,94±0,27*	2,84±0,09**	2,84±0,25**
, /	67,10±1,72	97,52±2,30*	76,95±3,10**#	62,89±2,83**
, /	67,13±2,09	43,39±1,38*	69,77±1,61**#	53,39±1,89**/**
, / ()	1,83±0,13	2,97±0,14*	2,08±0,30**	1,98±0,18**
- , /	0,62±0,06	1,29±0,11*	0,59±0,04**#	0,99±0,14*
, /	8,45±0,70	3,43±0,21*	6,43±0,71**#	3,56±0,23*

- : (<0,05): * - ; ** - ;

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1. / . . . / — , 2001. — 352-360.

2. / [.] // — 2003. — 27-29.

3. / [.] // — 2012. — 5. — 94-100.

4. — 2 / // — 2005. — 2. — 37-42.

5. Antinociceptive activity of *Tilia americana* var. *mexicana* inflorescences and quercetin in the formalin test and in an arthritic pain model in rats / A: L. Mart nez, M. E. Gonzalez-Trujano, E. Aguirre-Hernandez [et al.] // *Neuropharmacology*. — 2009. — Vol. 56. — 564-571.

6. Buricova L. Czech medicinal plants as possible sources of antioxidants / L. Buricova, Z. Reblova // *Czech J. Food Sci.* — 2008. — Vol. 26. — P. 132-138.

7. Fleischman R. M. Is there a need for new therapies for rheumatoid arthritis / R. M. Fleischman // *J. Rheumatol.* — 2005. — Vol. 32, Suppl. 73. — P. 3-7.

8. Hawkey C. J. Nonsteroidal antiinflammatory drugs: overall risk and management. Complementary roles for COX 2 inhibitors and proton pump inhibitors / C. J. Hawkey, M. J. S. Langman // *Gut*. — 2003. — Vol. 52. — 600-808.

9. Low dose long term corticosteroid therapy in rheumatoid arthritis: an analysis of serious adverse events / K. G. Saag, R. Koehnke, J. R. Caldwell [et al.] // *Am. J. Med.* — 1994. — Vol. 96, 2. — P. 115-123.

10. Simm L. S. Nonsteroidal anti-inflammatory drug toxicity / L. S. Simm // *Curr. Opin. Rheumatol.* — 1993. — Vol. 5, 3. — P. 265.

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19-22

S. M. Drogovoz, D. V. Demyanenko, G. V. Belik, Ju. V. Stoletov, O. V. Kudina, N. M. Timchenko
PHARMACOLOGICAL STUDY OF FREON EXTRACT FROM LIME FLOWERS IN ADJUVANT-INDUCED ARTHRITIS MODEL IN RATS

Key words: tilia extract, anti-inflammatory action, adjuvant-induced arthritis.

During pharmacological study of the freon extract from lime flowers in adjuvant-induced arthritis model in rats it has been found that its remarkable antiexudative action occurred on the 19th-22nd days of inflammation. This drug has shown an advantage over diclofenac sodium by influence on total leucocytes, serum protein level and antioxidant activity. There has been no difference in other studied indicators in compare with reference drug.