

615.322:582.734.4

• . . . , . . . ” . . . . .  
• . . . , . . . ” . . . . .  
• . . . , . . . ” . . . . .  
• . . . , . . . ” . . . . .

(ZIZIPHUS JUJUBA MILL.) -

( )

Ziziphus -  
 ziziphon, -  
 - zizafun - [16, 20].  
 [16]  
 : Ziziphus jujuba Mill. - , Ziziphus  
 mauritiana Lam. - DEAE-Sepharose ^ - 6  
 Ziziphus lotus Lam. -  
 Ziziphus jujuba Mill.,  
 ( - ).  
 40566 129518  
 70% - 4- -1-  
 -2- ( -1-  
 ) 4- -4- -2- 4:3 [50].  
 400 - -2-

G

1981 .  
 [17, 33].  
 100-500 / 30-50 / ,  
 [63].  
 1,33 /100  
 4,12 5,98  
 /100 [34].

Ziziphus jujuba 42,25%  
 44,0% 1,3- -0-[9^)- ]-2-0-[9^),12^)-  
 36.5% , 33,4% ]  
 0,22% , 83,8 /100 [2],  
 39,4 /100 , 1,1% , [85]  
 0,73% 1,7% , 12,4% 2,5% 11  
 6,7% [97]. : 2 9 [84].

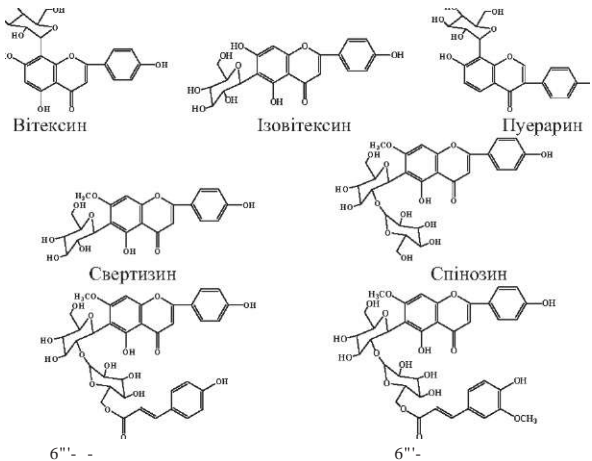
( ) [11]. [93]  
 7,8%, 5,1% 18,3%,  
 [108].

0,041% [25]. 0,013%  
 8

(-), (-), (-)  
 (-), (-), (-) (+)  
 (+), (-), (+), 4  
 - (-) - (4 - 8) - (-)  
 2, (-) - (4 - 8) - (-)  
 (-) - (4 - 8) - (-) 4  
 [66]. [26]

2,  
 [26],  
 -2''-0- ^-  
 6'''-  
 6 -  
 [26, 35,

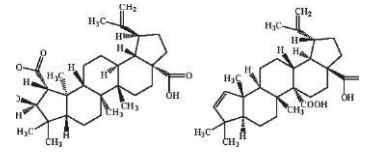
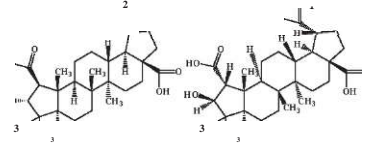
57].



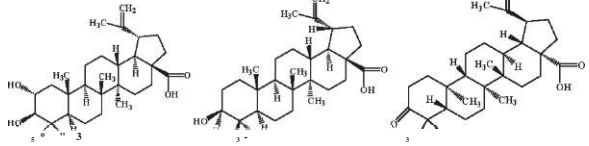
6'''- : 6'''-  
 [85]. 24 ( [58],  
 [91],

«Yunchengxiangzao» - 10.85 / , « ^ »  
 - 2,63 / ; «Taigushenglizao» - 24,38  
 / , «Jiaochengjunzao» - 7,53 / .

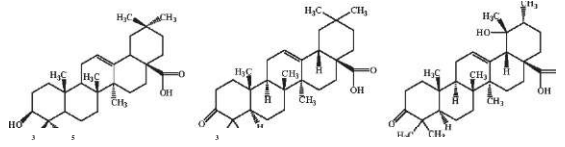
8,31 / ,  
 1,13 / .  
 - 23,49 / ,  
 - 2,04 / [83].  
 [9, 45]:



[9, 45]:



[9, 45]:

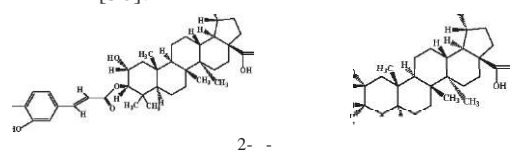


[85].

- 3-0-[9^)-  
 [2].  
 -21- ( -5-  
 -25 (26)- -9 - -21- )  
 -18- ( -25 (26)-  
 - 22 - -18- 3(19)-o ) [60];

(18, -20 (30)-163.4, (50) 101,4, 143,9, [9].

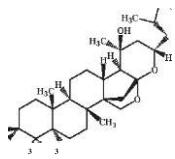
[18], Ziziphus jujuba var. spinosa, Z. jujuba, var. spinosa, [9, 45], [56].



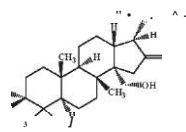
[14, 15, 57, 58, 84-85, 88-90, 98]. A, B, I, II, III [98]. 1.

I

		R1 N-MePhe R2 Leu X.Y CH=CH		94, 13, SB
D		R1 N,N-Me <sub>2</sub> Phe R2 Leu X.YCH(OCH3)-CH <sub>2</sub>		94, 13, SB
		2		
	O ^ O C b ,	R1 N,N-Me <sub>2</sub> Ile-Pro R2 Phe		94, 22, SB
		R1 N,N-Me <sub>2</sub> Ile R2 Val		94, 100, 13, SB
		R1 N,N-Me <sub>2</sub> Ala-Val R2 Phe R3 H		94, 3, S3, 13, SB
		R1 N,N-Me <sub>2</sub> Ile-Val R2 Phe R3 H		94, 3, 13, SB
		lb		
		R1 N,N-Me <sub>2</sub> Phe-Phe R2 Ile R3 OCH <sub>3</sub>		94, S3, SB
S3		R1 N,N-Me <sub>2</sub> Ile-Ile R2 Ile R3 OCH <sub>3</sub>		94, SB
		R1 N-MeAla-Val R2 Ile R3 OCH <sub>3</sub>		94, 72, 13, SB, 23



1



1

[14].

[15].

( ) [5].

( )

[4,7], (

13-, 14- 15- ) [43] ( . 2).

14-

8- - (4- )-7- -1-(4- )-6- [5].

( ) [94].

( ) [4, 7, 43]:

[1, 3, 8, 21, 23, 44, 53, 64,

65, 72-76, 78, 80, 86, 100].

[94]

[43].

[63]

2

								2 5 1
		2			5			
							5, 4,7	
	N						5	
							4,7	
	<b>1</b>						5	
							4	
							4,7	
							4,7	
	N 1						4,7	

3- - - [46-48, 96].

^ ^

[69].

Ki67 (

( 10% ). [110].

10% 60 4-6

8-10 3-4

25 50% [95].

Ziziphus

jujuba

(HepG2)

[59, 38].

[58]. 3- - - ( - - ),

3-O -

C-3

[103]. Ziziphus jujuba

[24].

3- - - - 3- - - -

[9]. in vitro [96,

[19, 52]. 104],

[102]. 90%

[107].

[102]. [87],

[105, 108].

[77].

[82].

75% - -D-

[41, 43]. [103].

Ziziphi jujuba ( - 0,85% )

in vitro,

[71].

1

[41, 43]. [14].

[43].

in vitro [55]. 95% [78]. [36]. [68]. in vitro [42]. [37], HDL- 2, 4 6 6 [99]. [29]. 95% [70]. [78]. jujuba, [54]. [28]. 5 [10] [6], [106]. [31]. [27].

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**T.V. Dzhan, E.Yu. Konovalova, T.K. Shuraeva, F.A. Mitchenko**  
**ZIZIPHUS (ZIZIPHUS JUJUBA MILL.) - PERSPECTIVE**  
**MEDICINAL PLANT (Literary Review)**

**Keywords:** flavonoids, saponins, alkaloids, sedative activity, immune system, lipid-lowering properties, antiulcer effect.

The literature review of biologically active substances of *Ziziphus* (*Ziziphus jujuba* Mill.) fruits, leaves and their pharmacological activity are presented.

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