

C.4-9 () = (). – 2015. – 1 (84). –

(.)¹, (.)², (.)³
 (.)¹, - (.)²,
 - (. - ,)³

, ,
 . , 82,3-83,7%
 . ,
 , - ,
 - ,
 , - ,

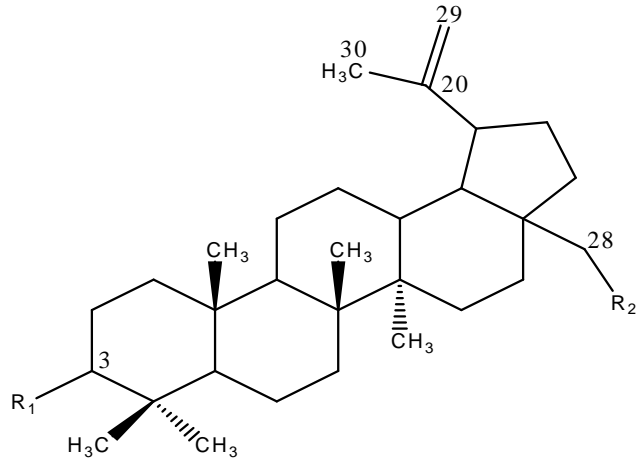
(,) ,
 - ,) ,
 : .
 , ,
 , XIX .

β- . , 1899 .
 (,) ,

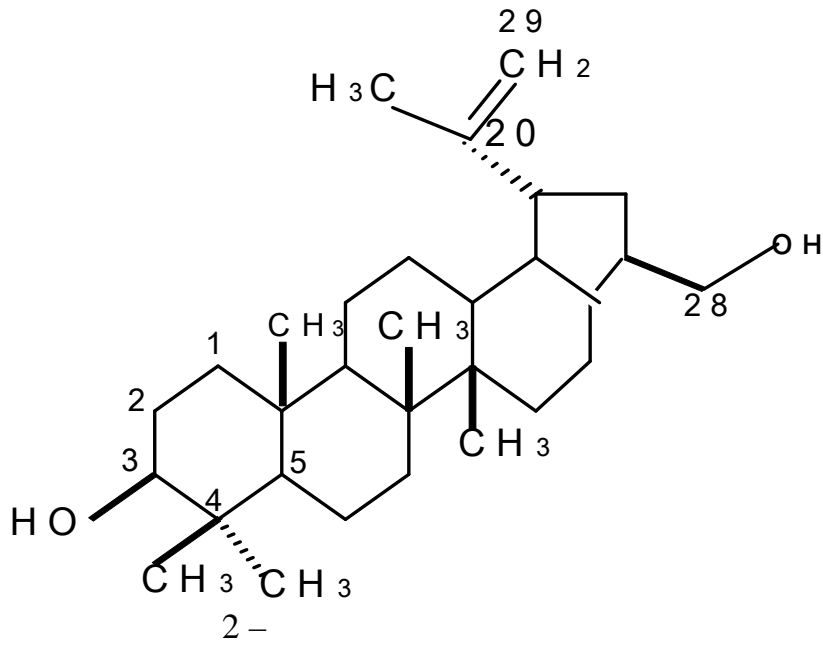
[1-3]. [4].

[5], [6], [7], [8], [9], [10-12], [13], [14].

(1), (2), (3), (4), (5), (6).



$R_1, R_2 =$ (1); $R_1 =$, $R_2 =$ (2); $R_1 =$ = , $R_2 =$ (3); $R_1 =$,
 $R_2 =$ (4);
 $R_1 =$ = , $R_2 =$ (5); $R_1 =$, $R_2 =$ (6)
 1 -



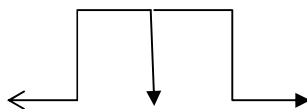
(40% (Betulaverrucosa Ehrh.; Betulapendula Roth.).

():



5%-

NaOH (24)



() (+)
3,5%, ~ 5,2%, ~ 82,5%. ~ 3,6%, β- ~
4,1%.

2013-2014 .

0,5-1,0 .

0,5-0,7), (98%-

110-115⁰ .

15 , ..

18 .

«SilufolUV254»

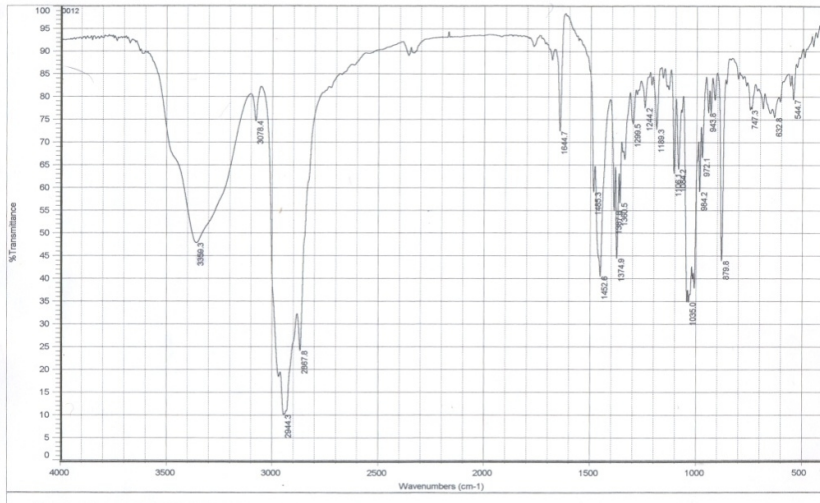
- - (2:1),
- -
(2:4).

[15, 16].

(-
L 40/100).

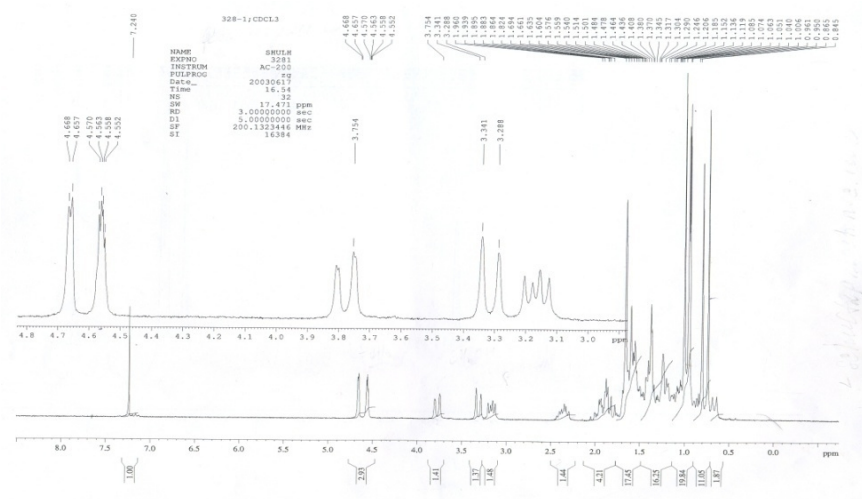
(- UR - 20
Brucker (400
)WM 400).

:



3 - - (, ⁻¹ . Br)

1620-1640 ⁻¹ (C=C) , 3350-3410 ⁻¹ , -OH ,



4 - ¹ - (CDCl₃)

()
 , 2 ..
 , (4.56 4.66
 3
 . .),
 (3.17 . .),
 28
 1 .. 3.31 3.78 ..
 1.65 .. , 10).
).

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Summary

The composition of different types of plants comprises various complex organic substances. These organic substances are biologically active natural compounds. For the purpose of extraction of these separate natural substances different methods are used such as extraction, chromatography and other. In our research the object example was the isolation of complex substances from the birch bark by way of extraction. And extractive substances were purified that is there were established group compositions containing in birch bark. With the help of IR-, NMR-spectroscopy structures of these substance groups were established. Further on we plan to continue many-sided research of physical and chemical properties of received new derivatives of triterpenoids.