

615.322 : 615.451.16 : 661.91-404

BMBHEHM  
BERBERIS VULGARIS I EH M

86%

-22, 410

8 %

roYHEHME  
BERBERIS VULGARIS C EHH M

-22, 410

D.V. Demyanenko  
**STUDY OF EXTRACTION PROCESS  
OF BARBERRY ROOTS  
WITH CONDENSED GASES**

**Key words:** extraction, barberry roots, condensed gases, Freon, ammonia, alkaloids

The research of extraction process of alkaloids from barberry roots with condensed Freons-22, 410 and their mixtures with ammonia has been done. The most optimum parameters for the technological mode of extraction and the composition of extracting solvent have been found. It was shown that under certain conditions it was possible to achieve 86% yield of the biologically active substances and the high quality of the primary extract.

547.458:582.886

EH E O EC BEHHO O E^ECTBEHHOro  
O CAXA OB B CHAMAENERION ANGUSTIFOLIUM B ^ A AX  
^ O AHAX

lium) (Chamaenerion angustifo- : 20-30  
(Onagraceae) - ( ), 40-50  
( ),  
) [2,3,5]. 2010  
( - ) 1-2  
[1,13,14], ( ).  
: 82%  
[10]. ( );  
0,5% ( ); 7%  
( ).  
2 ( 2 )  
[4].  
« [11,12]. 96%  
96%  
« » [6,7,8,9].  
0,4 10  
10 20%  
( )  
2,5 ( ).  
( - )  
1 50%  
(10 ) Kieselgel

		, %				
-	( 20-30 )	11,6±0,52	8,64±0,52	13,15±1	9,51±0,48	21,0±1,12
-	( 40-50 )	23,38±0,93	7,78±0,55	16,47±0,66	10,9±0,7	18,93±0,57
-		27,42±1,18	8,03±0,57	13,84±0,71	9,7±0,57	18,11±0,93
-		26,24±0,94	8,56±0,54	12,01±0,79	9,51±0,6	20±1,22
-		28,6±1,52	16,47±0,76	14,26±0,71	10,9±0,68	26,93±1,03
-		33,05±1,27	15,33±0,63	18,47±1,04	11,7±0,87	28,11±1,08

60 F254

(8:2); - **angustifolium** ; ^ , -  
 , 0,5% **angustifolium** ; ^ -  
 ( ) (10:85:5) 2. -  
 100 - 105 ° 10 . ^ , -  
 , , (33,05%,  
 18,47% ,11,7% 28,11% ), -  
 (16,47%).  
 3. ^ ^ , -  
 , , -  
 40-50 ( ) - 16,47%, - 10,9%;  
 20-30 ( )  
 - 8,64%, - 21,0%;  
 - 27,42%.

1.

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 8. 22.06.2011

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CHAMAENER N ^

40-50 ( ) ,  
 20-30 ( ) ,

angustifolium  
 Chamaenerion angustifolium

Z.H. Abudayeh  
**STUDY OF QUANTITATIVE AND QUALITATIVE  
 COMPOSITION OF POLYSACCHARIDES IN  
 CHAMAENERION ANGUSTIFOLIUM IN DIFFERENT  
 PHASES OF VEGETATION AND DIFFERENT ORGANS**

**Key words:** Hamenerion angustifolia, polysaccharides, flowers, willow-herb, willow-leaf tea, the buds of willow-herb

Study of the quantitative content of polysaccharides in Chamaenerion angustifolium in different organs was conducted. It was established that most alcohol-soluble polysaccharides of the quantitative content, pectins, hemicellulose A and B had contained in flowers, water-soluble polysaccharides - in buds. In different phases of plant growth the highest content of pectins, hemicellulose A was found in leaves of plants with a height of 40-50 cm (up to bud), water-soluble polysaccharides and hemicellulose found in leaves of plants with the height of 20-30 cm (up to bud), alcohol-polysaccharides in leaves during bud formation. The qualitative composition of water-soluble polysaccharides in Shamaenerion angustifolium in different phases of vegetation and in different organs was determined. In the hydrolyzate of soluble polysaccharides of Shamaenerion angustifolium glucose, rhamnose, galactose and galacturonic acid were found, in a free state in the aqueous extract of Chamaenerion angustifolium glucose was detected.

615.322:577.127.4

1,2  
 I.O.  
 2  
 \*

**BMICT                    E O B H  
 (MELISSA OFFICINALIS)**

(Melissa) - (La-  
 miaceae), 10 -  
 (Melissa officinalis).  
 300  
 [3].  
 [7, 14].  
 [2, 9,11].  
 [3, 7, 10].  
 ( )  
 ( )  
 [10, 12], ipaei

**ME IC**  
 2 ( )  
 3 500  
 250  
 30  
 100 200-250 [4].  
 [5].  
 [4,13].

$$X = ((V - V!) \cdot 0,004157 \cdot 250 \cdot 100 \cdot 100) / ( \cdot 25 \cdot (100 - " ) ),$$

$$V - ' (0,02 / ),$$

$$; V1 - ' -$$