

3,74%
46%
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- 1,00% 0,43%
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1. // 2005.- 1.- 212-221.
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1.
2.
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4. 8%
46%
- 3,74%

2003.- 1.- 27-37.
3.
2006.- 4.- 29-33.
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04.11.2011

: 582.734.4:615.07:615.322:54.061/062:547.9:577.15/17,

46%
- 3,74%
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8%
46%
- 3,74%

Gergel, E. Konovalova, T. Shuraeva
**STUDY OF THE CONTENT OF POLYSACCHARIDES
IN FRUITS OF SHEPHERDIA ARGENTEA PURSH**

Key words: Shepherdia argentea Pursh., polysaccharide fractions, soluble polysaccharide, pectins, hemicellulose

The results of the study of polysaccharides fractions content in fruits of Shepherdia argentea Pursh. by spectrophotometric method is adduced. In the composition of polysaccharides of Shepherdia argentea Pursh. hemicellulose dominates - 3,74% in terms of fructose containing 46% hemicellulose A. The content of water-soluble polysaccharides is less than 8% of the total content of polysaccharides.

: 615.322:615.451.16:581.43:581.45:582.998.2

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[5].

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4, 7, 8].

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 2006-2008 . ' 1 - 385-460) [6].
 (2) () - (4564-79),
 - , - , - , -
 - 40%). ((7,53+0,34%) -
 - 7,07+0,34%.
 - , 2,30+0,10% 2,66+0,12%.
 [2], - [3], 13,78+0,65%,
 - 9,23+0,45%.
 - ()

	, %	(, %)	(, %)	(, %)
*	7,07+0,53	0,89+0,03	1,50+0,05	1,17+0,08
*	4,16+0,31	0,51+0,02	0,88+0,03	0,70+0,05
*	5,53+0,24	1,85+0,06	1,66+0,06	0,66+0,04
*	5,43+0,34	1,57+0,05	1,22+0,04	0,79+0,05
*	2,30+0,15	0,52+0,02	0,12+0,01	1,29+0,08
*	2,66+0,18	0,50+0,02	0,13+0,01	1,10+0,07
*	4,35+0,38	1,12+0,04	0,92+0,03	0,69+0,04
*	7,53+0,51	1,78+0,06	1,64+0,06	1,10+0,08
**	13,78+0,95	2,14+0,07	3,21+0,11	0,91+0,06
**	9,23+0,58	4,24+0,16	4,00+0,14	1,04+0,07

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 (1,85+0,06%), 1,2 () -
 1,57+0,05%. 1,3 (1,04+0,05%),
 2 (0,91+0,04%).
 0,52+0,02% 0,50+0,002%.
 (2,14+0,07%), (4,24+0,16%).
 1,66+0,06% 1,64+0,06%. (7,53+0,51%)
 (0,13+0,01%). (0,12+0,01%) (1,66+0,06%) - (1,85+0,06%)
 (1,29+0,08%) -
 3,21+0,11% 4,00+0,14%. (13,78+0,95%),
 (4,24+0,16%),
 (1,29+0,05%), (0,66+0,03%) - (4,00+0,14%) (1,04+0,07%).

1. ... // ... - 2007. -M ... -6.
 2. ... // ... 23- ... 63-68. ... 2007. -M 4. - 24-23.
 3. ... // ... 99 - 293.
 4. ... // ... - 2001. - 37.
 5. ... // ... - 2007. -M 4. - 24-23.
 6. ... // ...
 7. *Metabolic profile of the bioactive compounds of burdock (Arctium lappa) seeds, roots and leaves* / R. Ferracane, G. Graziani, M. Gallo // *J. Pharm. Biomed. Anal.* - 2009. - Vol. 23, M 7. - P. 79-84.
 8. *Yuan X. A high performance liquid chromatography method for the simultaneous determination of arctiin, chlorogenic acid and glycyrrhizin in a Chinese proprietary medicine* / X. Yuan, H. L. Koh, W. K. Chui // *J. Pharm. Biomed. Anal.* - 2003. - Vol. , M 3-4. - P. 697-704.
 (Arctium lappa L.)

3. // ... - 2007. -M ... -6.
 Asteraceae (Compositae) /
 99 - 293 .
 6. // ...
 - 2007. -M 4. - 24-23.
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12.09.2011

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 (4,24+0,16%),
 (1,04+0,07%).
 (4,00+0,14%)

T.V. Oproshanskaja, O.P. Khvorost
**QUANTITATIVE DEFINITION OF PHENOLIC
 COMPOUNDS IN RAW MATERIALS AND SUBSTANCES
 OF BURDOCK**

Key words: burdock, root, leaf, stem, inflorescence axis, inflorescence, fruit, bushy extracts, phenolic compounds
 The quantitative content of phenolic compounds was defined in roots of spring and autumn harvesting, root and stem leaves, stem, inflorescence axis, inflorescence, fruit of burdock and leaf and root bushy extracts. In raw materials the highest content of the sum of oxidative phenols (7,53+0,51%) is found in fruits, acids hydroxycoric (1,85+0,06%) and phlavanoids (1,66+0,06%) - in root leaves, tannins (1,29+0,08%) - in stem. In the bushy extract of a root the high content of the sum of oxidative phenols is watching (13,78+0,95%), in the bushy extract of leaf - acids hydroxycoric (4,24+0,16%), phlavanoids (4,00+0,14%) and tannins (1,04+0,07%).

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