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Yu. S. Prokopenko

ASPECTS OF APPLICATION OF FUMARIACEAE FAMILY MEMBERS IN OFFICIAL AND TRADITIONAL MEDICINE

Key words: natural extracts, Fumariaceae family, phytotherapeutic remedy

The analysis of information sources devoted to research of the chemical composition of Fumariaceae family members and ways of their use in official and tradition medicine were presented in the article.

: 615.322:633.87:615.074:543.4

- 1 , ” ”
- 2 , ” ”
- 2 , ” ”

- 1
- 2 ,

[1, 2, 3].

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[1, 4].

()

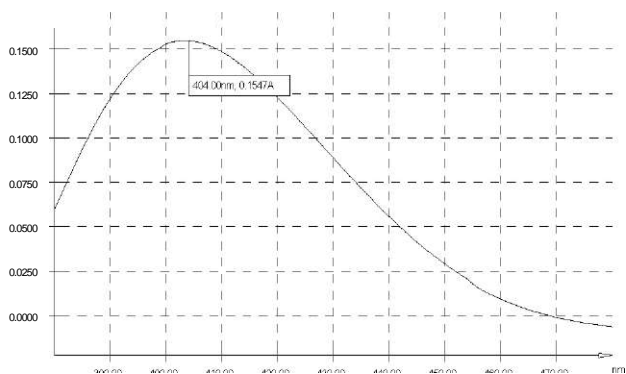
[5].

(Agrimonia eupatoria L.),
(Filipendula ulmaria (L.) Maxim.),
(Camellia sinensis L.),
(Illicium verum HOOK L.)

[5].

	4,0000
	4,0000
	1,0000
	4,0000

$$X = \frac{m_{D1} \cdot IGG \cdot IGG - IGG}{AQ \cdot m \cdot IGG \cdot (IGG - w)}$$



1.

()

1, -

404 ,

(. 2).

(

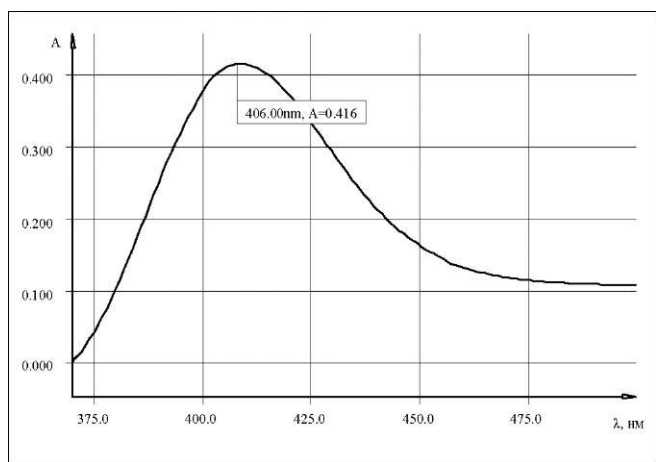
2.

[5, 7, 8, 9, 10, 11] -

(. 3)

3,0 5,0

()



2.

(1,25 /)

	X	S	X ± (%)	(%)
1	1,55	0,04	1,55 ± 0,08*	5,16
2	1,44	0,06	1,44 ± 0,12*	8,33
3	1,39	0,03	1,39 ± 0,06*	4,32
4	1,47	0,01	1,47 ± 0,02*	1,36
5	1,62	0,01	1,62 ± 0,02*	1,23
6	1,52	0,03	1,52 ± 0,06*	3,95
1	5,43	0,02	5,43 ± 0,04*	4,74
1	4,20	0,05	4,20 ± 0,10*	2,38
1	0,35	0,01	0,35 ± 0,02*	5,71
1	6,58	0,03	6,58 ± 0,06*	0,91

* < 0,05; t(, V) = 2,02; = 5.

0,9861,

() - 0,4882.

(),

0,9981.

RSD

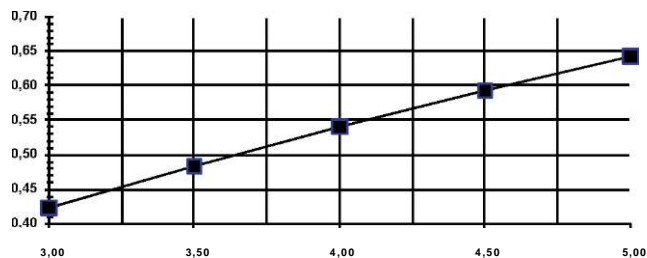
0. = = +

^

X.

14,5815.

3



3.

3,0 5,0 .

		(X. %)	(, = 0,525)	(F. %)	% Zi=100 (Y/X)
1	3,2717	80,05%	0,4230	77,61	96,96
2			0,4246	77,91	97,32
3			0,4250	77,98	97,42
4	3,6844	90,15%	0,4840	88,81	98,51
5			0,4833	88,68	98,37
6			0,4832	88,66	98,35
7	4,0869	100,00%	0,5430	99,63	99,63
8			0,5420	99,45	99,45
9			0,5407	99,21	99,21
10	4,5153	110,48%	0,5848	107,30	97,12
11			0,5815	106,70	96,58
12			0,5810	106,61	96,49
13	4,9017	119,94%	0,6430	117,98	98,37
14			0,6407	117,56	98,02
15			0,6434	118,06	98,43
7%					98,01
, Sz%					1,0006
% = t (95%,14)*Sz					1,7623
as%					3,20%
8					0,08
1) $8 < \sqrt[15]{0,72} = 0,72^{1/15}$, 2) 1), $8 < 0,72$					0,19

(4,20%).

1.

(0,35%)

(1,39-1,62%).

3.

2.

(6,58%),

3,0 5,0 .

(5,91%)

1. — 4. — 35-41.
5. — 1- — 2001. — 556 .
6. — 2. — 11- .
7. — 1989. — 400 .
8. — 8-12. — 2006. —
9. — 2007. — 2. — 13-18.
10. — 2004.
1. — 1976. - 222 .
2. — 2003. — 39. 3. — 77-82.
4. — 2003. — 1. — 13-15.
5. — 2007. — 2. — 13-18.
6. — 2004.
1. — 4. — 35-41.
5. — 1- — 2001. — 556 .
6. — 2. — 11- .
7. — 1989. — 400 .
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31.01.2013

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**A. S. Shumova, O. A. Evtifeeva, V. A. Georgiyants
DEVELOPMENT THE METHOD OF QUANTITATIVE
DETERMINATION FLAVONOIDS DIFFERENT TYPES
OF MEDICINAL PLANTS BY SPECTROPHOTOMETRIC
METHOD AND DETERMINATION OF ITS VALIDATION
PERFORMANCE**

Keywords: medicinal raw materials, flavonoids, spectrophotometric method, validation parameters.

The method for the quantitative determination of flavonoids: grass of the Agrimony, grass of the Filipendula vulgaris, tea leaves of the Chinese, fruits of the Illicium verum Hook L. and rind pomegranate is spectrophotometric method. Experimentally calculated sample chopped raw, the concentration of ethyl alcohol, the amount and frequency of extraction. Were defined validation parameters - linear dependence and convergence, which show us method for determining the content of flavonoids in the studied types of herbal drug is valid and reproducible.

: 615.07:582.883

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- . . . , . . .

(Feijoa sellowiana O. Berg),
(Acca sellowiana) (Myrtaceae)

XIX .

[1].

(1:1:1)

2010-2011

[2-].