

,

-
III -

- 2009

∴
∴ ∴ , ∴ ∴ ∴
∴ ∴ , ∴
∴ ∴
∴ ∴

∴
.H. ,
∴
∴ ∴ ∴

— , «__»__2009 ().

∴ ∴

—
«__»__2009 ()

(). ,
 ,
 , , ,
 , , ,
 , , ,
 .

4 4 .

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	,
	.
	,
	,
	.
-	- « » , « » , « » ,
- « » , « » »	
	-
	-
	-
	- , 100
-	,
	:
	:
	: 1)
2)	;
	,
	,
	,
	.
(,)	;
	.

- 1. - 30
- 2. - 10
- 3. - 100
- 4. -
- 5. - 15
- 6. - 5

1-

,

- 1. .
- 2. , - .
- 3. ?
- 4. - .
- 5. ? ,
- 6. .
- 7. .
- 8. .
- 9. .

1-

- 1.) ; , :
- 2.) - X ().

() . -

150

2%

,

. 1-2

1

«+»,

«+»

«+».

3 :

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

. 1-2

. H₂SO₄
)

K₂Cr₂O₇ (1-2

. 1-2

. HNO₃ -

N-

(Zn +2 HCl)

2%

6
70°.

(. H₂SO₄ + 20
1%)

. 1

(, 100 ,
)

25 1%- HCl

1

5

100

5

					-
I	1		$I_2 + KI$		
	2		$I_2 + KI$		
	3		$HgI_2 + KI (K_2Hg_2I_4)$		
	4		$CdI_2 + KI (K_2Cd_2I_4)$		
	5		$BiI_3 + KI (KBiI_4)$		-
II	6		- - $H_2BO_4 \cdot 12MoO_3 \cdot 2H_2O$		-
	7		- - $H_3PO_4 \cdot 12WO_3 \cdot 2H_2O$		
	8		- - $SiO_2 \cdot 12WO_3 \cdot 4H_2O$		
III	9	-	10%		
	10		1%		
IV	11	-	5% H_2PtCl_6		
	12	-	5% $HgCl_2$		
	13	-	5% $HAuCl_4 \cdot 4H_2O$		

1.

((30-40 , 12))

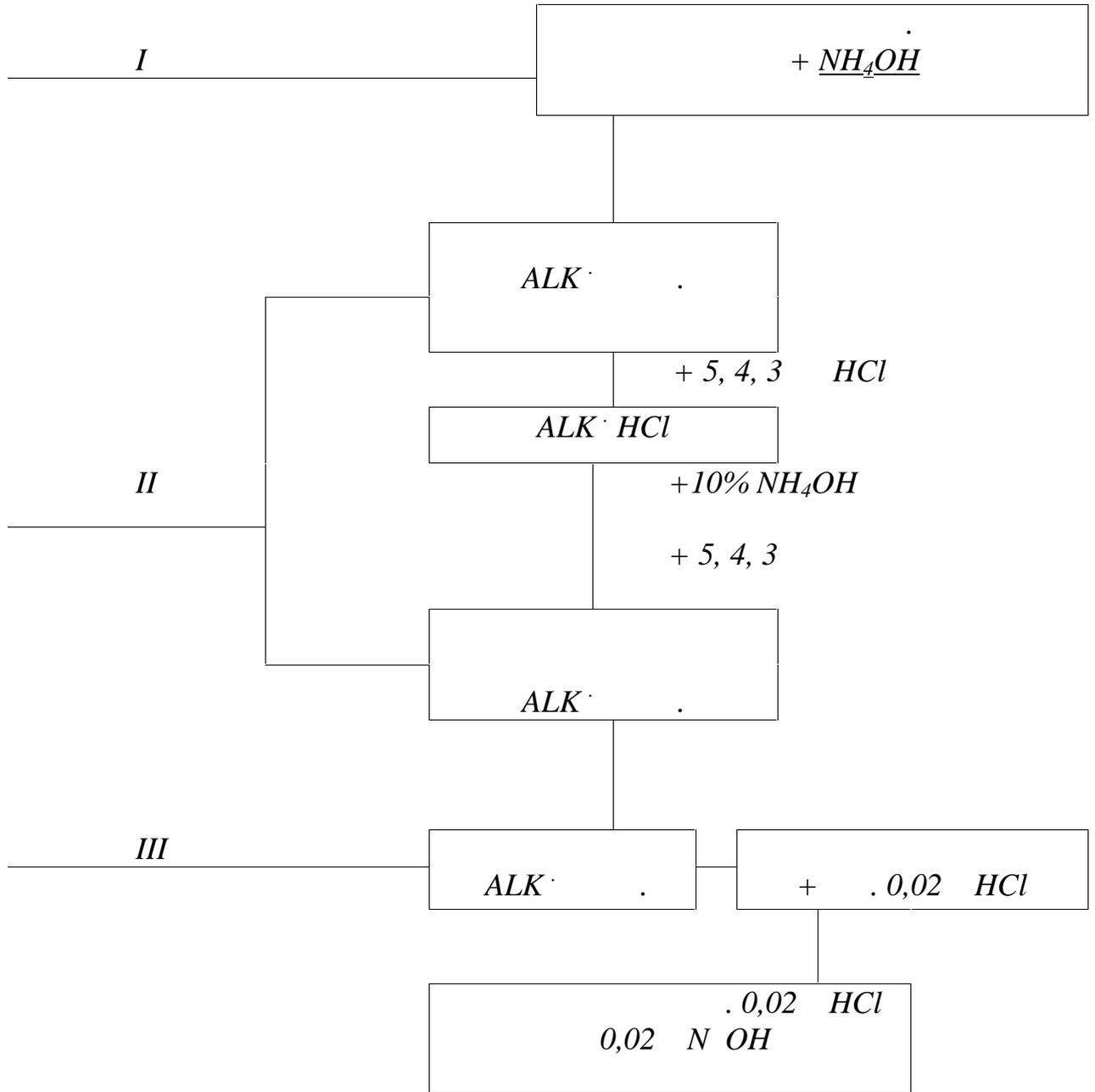
(2-3

0,1

,

. - 2 . 5 .
 () : H- -
 () (5:1:4).
 - 3-5 (- 14-15).
 ()
 .
 2. () .
 (12×9)
 1,5 , 0,1
 1,5 .
 5 . :
 (95:5) - 2. (5:4:1)- 1 5 . -
 30-40 () .
 . Rf = a\b; (- b).
 :
 . 40 0,85 10
 . 50 50% 20
 100 .
 X ()
 2,5
 250 , 1 , 3,75 37,5 ,
 . 200 ,
 5 ,
 200 .
 2,5 ,

(5,4,3 . 1%),



1% HCl 5 ,

5,4,3

, 3 .

4-5

,
;
5 .

1-2 ,

5

0,02

HCl (0,02 NaOH)

(0,005780

1 0,02 HCl

(0,3%),

()

$$= \frac{(-) \cdot 0,00578 \cdot 100 \cdot 100}{(100 -)}$$

, a -

0,02

HCl, - 0,02

NaOH,

, P - ,

0,3%

(« », « », « » « »).

« » (1 -)

3-4

1-

- 1.
- 2.

2-

- 1.
- 2.

?

3-

- 1.
- 2.

4-

- 1.
- 2.

1. 5-
 2. .
 « » (I -)
 3 - 5 ,
 ;
 , 3 - 5
 , , ,

		-						
			-			-		
1								
2								
3								
4								
5								
6								
7	10% -							
8	1% -							

2 -

1. , .
 , .
 2. , .
 , .
 3. , .
 , .

- 4. , .
- 5. , .
- 6. —

2—

- 1.
- 2.
- 3.
- 4.

- Folium et radix Belladonnae

—Atropa Belladonna L.
 —Atropa caucasica Kr.
 —Solanaceae

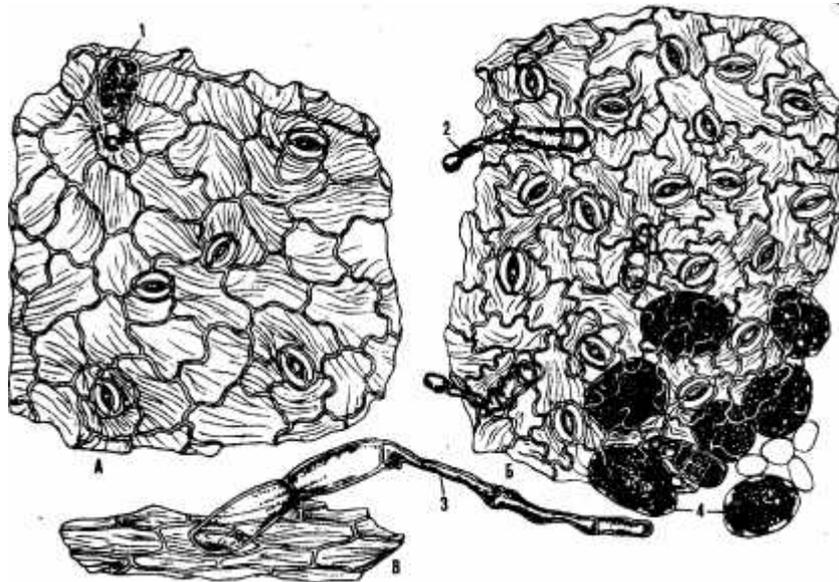
..

—

5.

10-20 , 0,5-2 .

20 , 12 .



. 1.

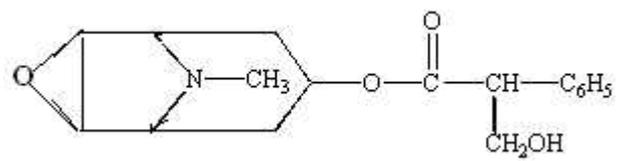
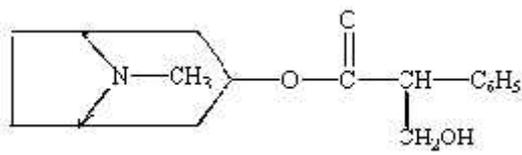
A -
1-2 -

; 3 -

; 4 -

0,75%

1,3%.



(,)

« ».

« »,

0,1%;

« » « ».

– Oleum Hyoscyami

- Folium Stramonii

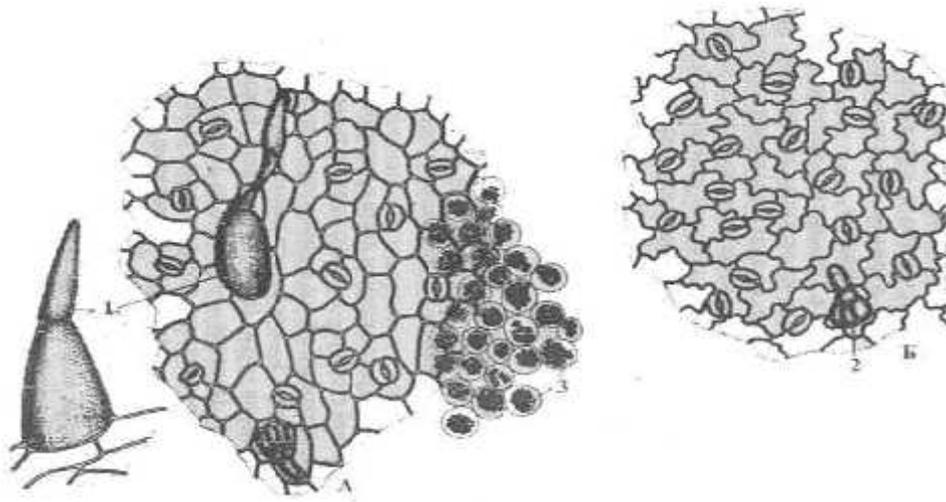
- *Datura stramonium* L.

- Solanaceae

4

25

()



A – 1 – ; 2 – ; 3 – ;
 B – 2 – ; 3 –

0,4%.

« » « », .

- Fructus et semen Daturae innoxiae

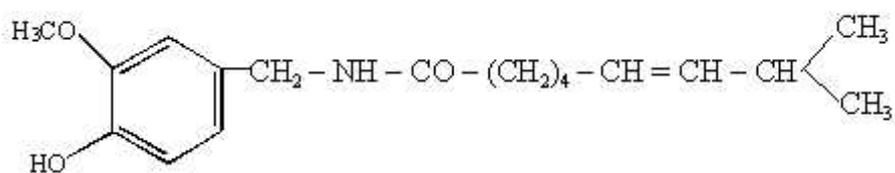
. . - Daturae innoxia Mill.
- Solanaceae

: - .
4-5 , - , ,
0,2%.
- ,
0,3%. 50% .

- Fructus Capsici

. . (,)- Capsicum
annuum L.
- Solanaceae

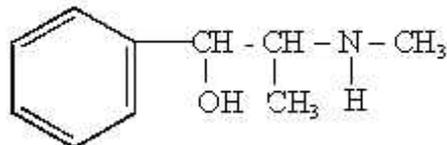
60 .
, ,
, 5-7 ,
5-9 , -
8-12 4 .
- ,
, ,
, .



- Herba Ephedrae

.. () - Ephedra equisetina Bunge
 () - Ephedra intermedia Schrenk.
 - Ephedraceae

, ; -
 . , -
 , ;
 , - ,
 . - , - . :
 20 - 30 , 2-3 , 50 ,
 -
 .
 . 25 , 3 ,
 .
 . 0,5-3,2%;



(« », « », « » « » « »).

« » (2 –)

3-4 , .

,

1-

1.

2.

2-

1.

2.

3-

1.

2.

4-

1.

2.

5-

1.

2.

« »

3 – 5 ,

;

3 – 5

,

,

.

			-		-	-
1.						

4. . , . , .
5. . , . .
6. . , . .
7. . , . .
8. . , . .
9. . , . .
10. . - .

3-

1. .
2. .
3. .

Rhizoma et herba Senecionis platyphylloides

. . - Senecio platyphylloides Somm. et Lev.
 . - Asteraceae.

10-15

1-3

5-8,

1

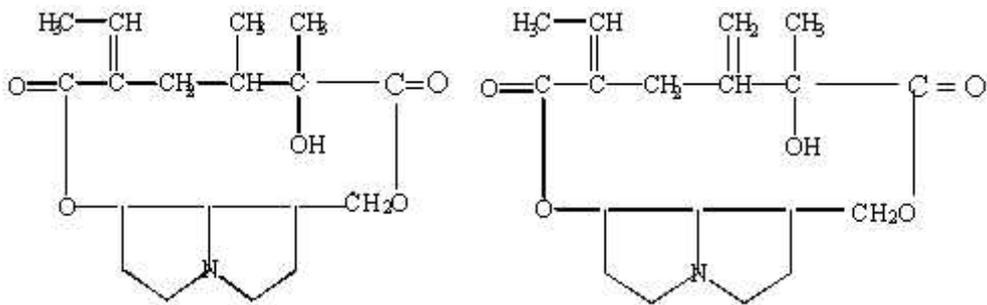
30

2

0,4%.

0,2%.

N -



5%,

3%.

(Plathyphyllini

hydrotartras)

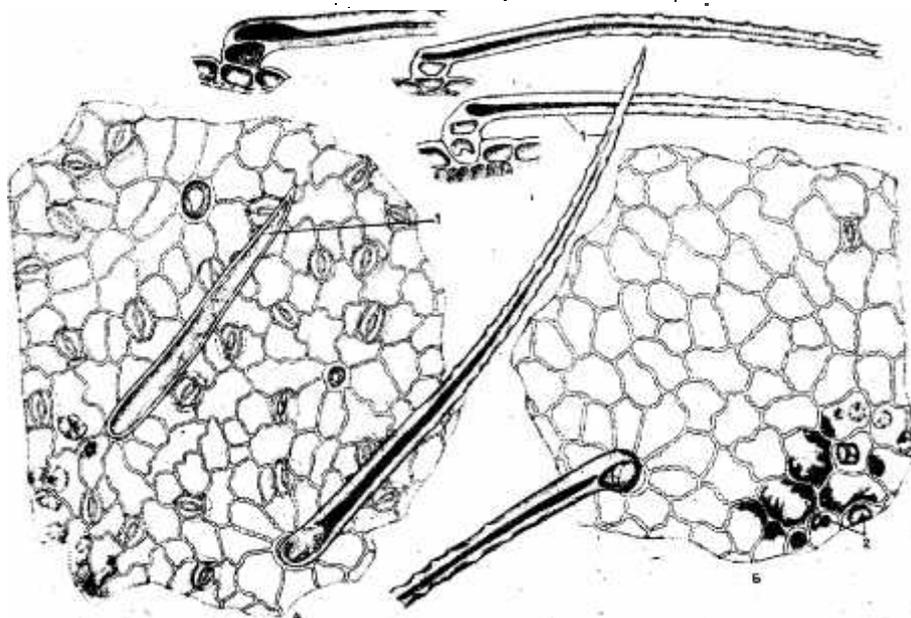
20-70 ,
 ,
 ,
 ,
 ;
 2-4
 3 .
 ,
 ,
 2-3%
 (, .),
 60%.
 : 10
 (Anabasini hydrochloridum) 0,003 ,
 ; 2)

- Herba et semen Thermopsisidis

.. - Termopsis lanceolata R.Br.
 - Fabaceae (Leguminosae)
 - Papilionatae
 - 40
 ;
 -
 () () -
 () 10,
 30 .
 ,
 30-60

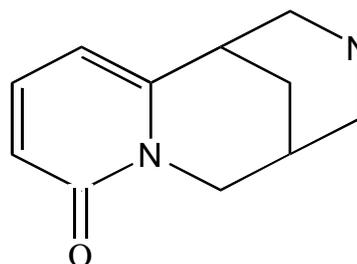
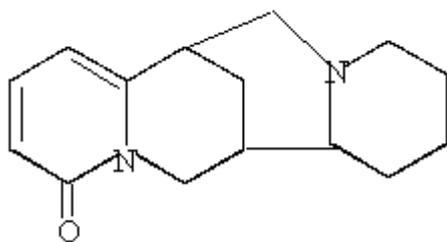
5-12

Termopsis alterniflora —



A- .4. ; - ;
1 - ; 2 -

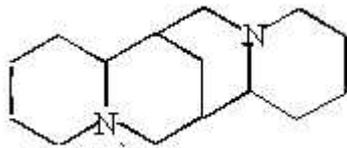
3,6%



, (,
) ,
 ,
 , 2-3% ,
 - .
 1:400 , .

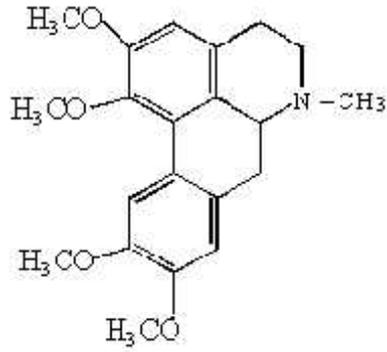
- Herba Sophorae pachycarpae

. .
 . - Sophora pachycarpa
 . - Fabaceae (Leguminosae)
 . - Papilionatae
 . 60 . ,
 . ,
 . - , ,
 . - , .
 . 15-
 20 , 3-10 , . ;
 , 5 , - ,
 10, .
 . 2-3% , .
 - , .



- Herba Glauci flavae

. .
 . - Glaucium flavum Crantz
 . - Papaveraceae
 . 50 ,



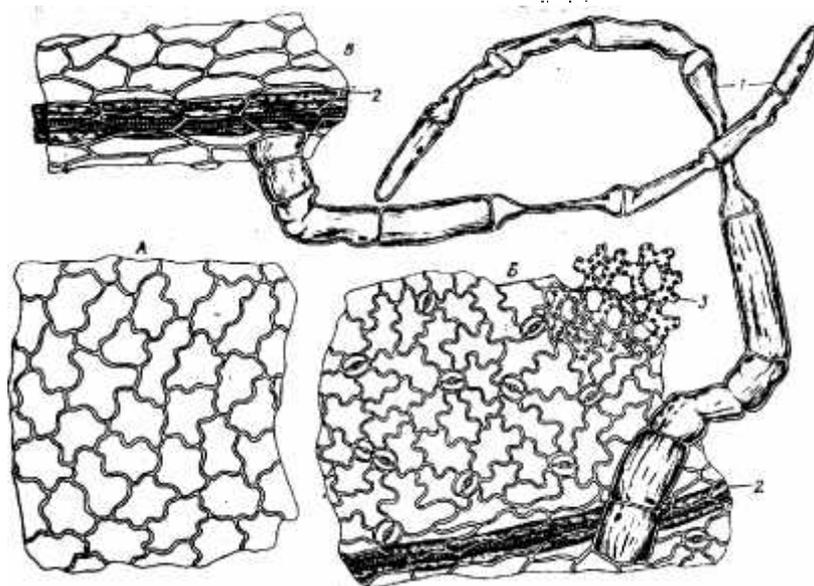
- Glaucini hydrochloridum

- Herba Chelidonii

- Chelidonium majus L.

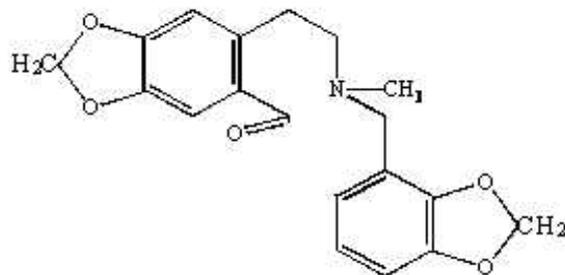
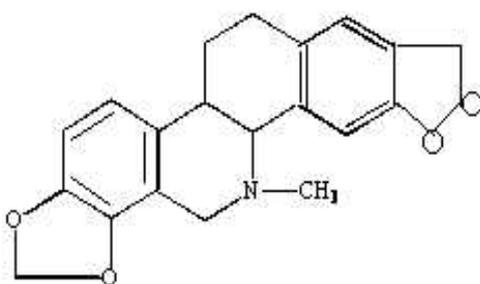
- Papavereceae

100 . , , , , 30-
 , , -
 - , 2 , 4
 , , , ,
 . - , ,
 , , , ,
 , 4-7 .
 .
 20) . (7-



. 5.
 A - ; 1 - ; 2 - ; 3 - ; -

2%.

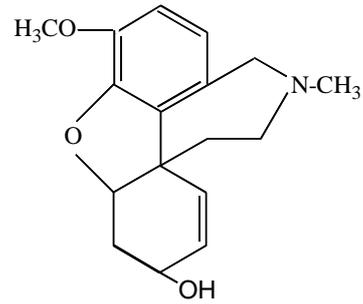
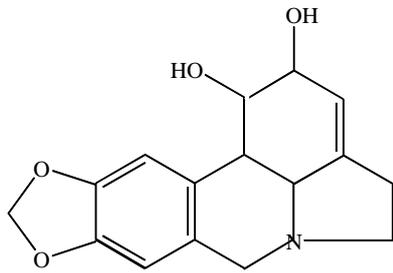


40%).

- Folia Ungerniae

- Ungernia Victoris Vved
- U. Sewertzowii (Regel) B. Fedtsch.
- Amaryllidaceae

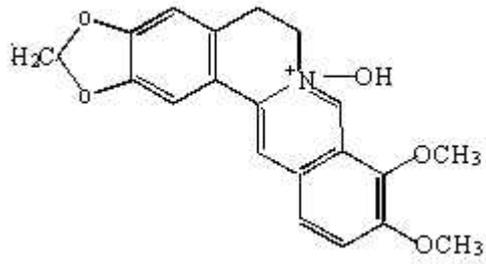
7
 20-40
 1-4
 6
 -
 0,5
 -8
 -



- Folium et radicis Berberidis

- .. - Berberis vulgaris L.
- Berberis amurensis Rupz.
- Berberidaceae

2
 6
 2-3
 4
 0,15%.



(« », « », « », « » « »).

« » (3 –)

3-4

1-

- 1.
- 2.

2-

- 1.
- 2.

3-

- 3.
- 4.

4-

- 1.
- 2.

5-

- 1.
- 2.

« »

3 – 5 ,

;

3 – 5

		-	-	-	-	-	-	-
1								
2								
3								
4								
5								
6								
7								
8								
9								

					-		
1.							
2.							
3.							
4.							
5.							
6.							

11.

4-

- 1.
- 2.

-Tuber Aconiti

- Aconitum Rarakolicum Rapes.

- . soongoricum.

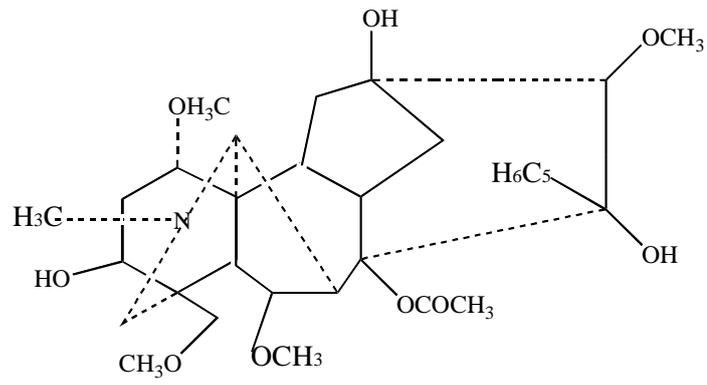
- Ranunculaceae.

3-6

1-2,5

(3%)

2



- Secale Cornutum

- *Claviceps purpurea* Tulasne.

- Clavicipitaceae.

1.

2.

3.

1 - - - - -

2 - - - - -

3 - - - - -

()

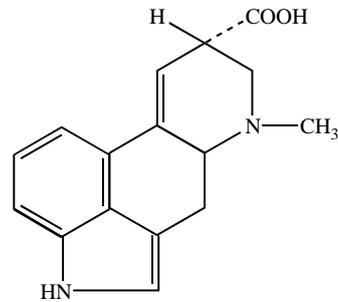
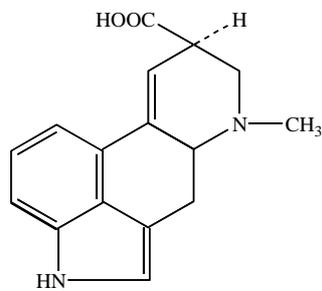
8

(« »).

3-4

2-5

1-3



.),

() ,

() ,

(33-35%),

(0,1%)

(Strychnini nitras)

- Radix Rauwolfiae Serpentinae

- Rauwolfia Serpentina Benth.

- Apocynaceae.

1

2-3

3-4,

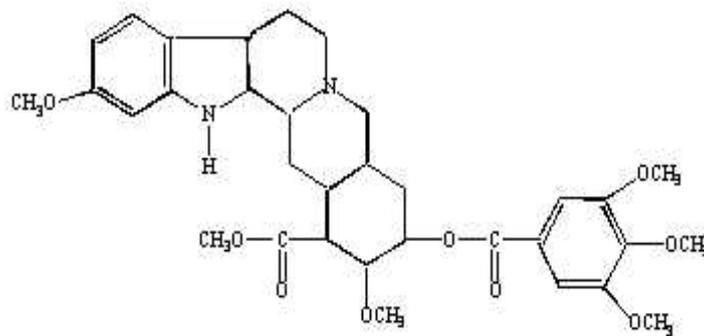
5,

2-

25

1-2%.

1%)



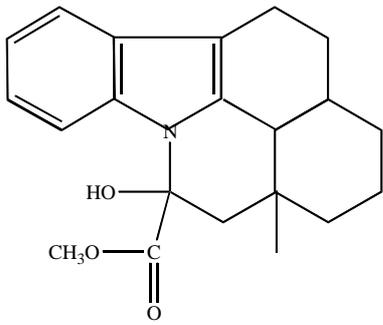
- Herba et folia Vincae

- Vinca minor L.

- Apocynaceae.

3

5 . , , , 2-3 , , , 3-
 , . , ,
 - , , .
 1-2 , .
 . 20



(),

- Herba Catharanthi roseae

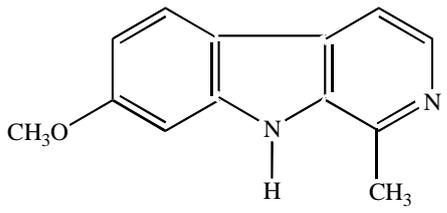
. . () - Catharanthus roseus (L)
 G. Don. (Vinca rosea L.)
 - Apocynaceae.

60 . , , ,
 , , - ,
 . - .
 , , , , ,
 , , - , - .
 (, ,),

- Herba Passiflorae incarnatae

. . - Passiflora incarnata L.
 - Passifloraceae.

3-15 . 9 ,
 6-19 8-20 ,
 , 7-9 , 5,
 5 « » 2
 - -
 3 1-4 ,
 0,05%



: ,
 1:2

- Folium Theae

- *Thea chinensis* L.
- Theaceae.

- 3-
 () ,
 :
 , B₁, 2, PP,

- Rizoma cum radicibus Veratri

- *Veratrum lobelianum* Bernh.

- Liliaceae.

140

6

6,

-3-

1,5-3

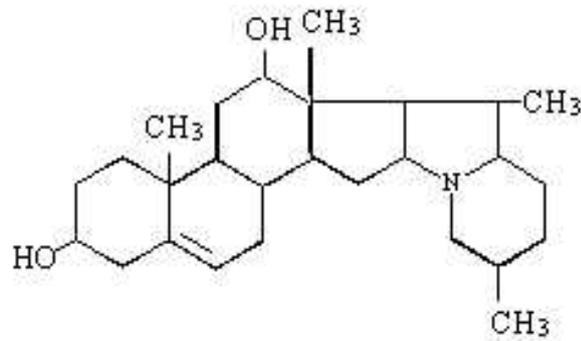
8

2-3

10-20

() ,

() .



- Herba Solani Laciniati

- *Solanum laciniatum* Ait.

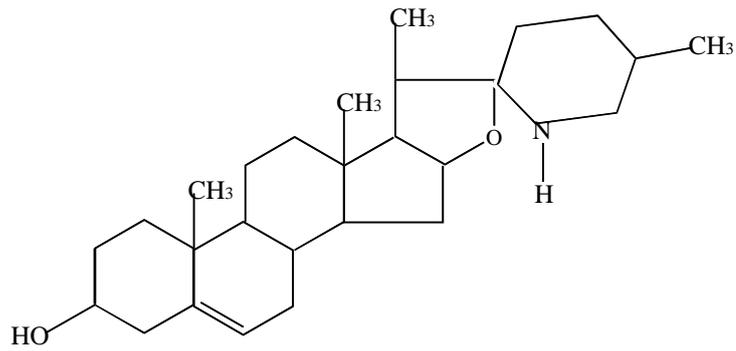
- Solanaceae.

2-2,5

40-60

35

13-17



- Herba pegani harmalae

- Peganum harmala L.

- Zygophyllaceae.

40 - 70

(3 - 5

5

4 - 5

5 - 6

0,6 - 1

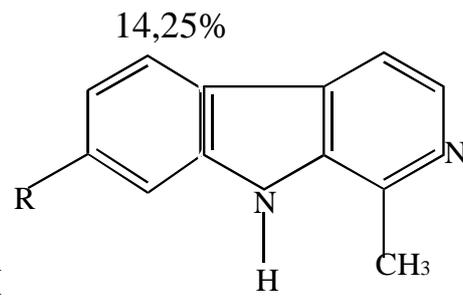
150

100 - 150

()

1 - 2
42-879-79

, 60%
1,5 - 3%
2,15 - 2,70%
60% ()
3,5 - 6%
30%



- R = H
- R = OCH₃
- R = OH

(« », « », « » « »).

« » (4 - 2-3)

6.										
7.										
8.										
9.										
10										
11										

1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										

1. . 2. . 3. . 4. . 5. . 6. , . 7. .

1										
2										
3										
4										
5										
6										
7										

