

[2].

[3].

()

0,1 %

(10–15 %)

[5].

($r =$

$= 14,3$),

$+ 17,5$),

$= 26,78$),

($r = 44$).

(*Mycena pura* (Fr.) Kumm.)

MPFA (*Mycena pura* fungus

agglutinin).

1:4 [6].

D- , D- , D-

(«

»,), («Fluka»,), -

-D- , L- , N-

-D- N- -D-

(«Chemapol»,), D- , D-

, L- (

,)

-D- , L- («Koch Light»,

).

[4].

(«Biolar»,),

(), 4,5, [7].

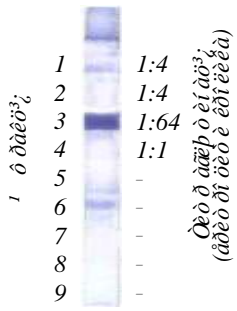
8,4

(600 /),

D -Toyopearl [1].

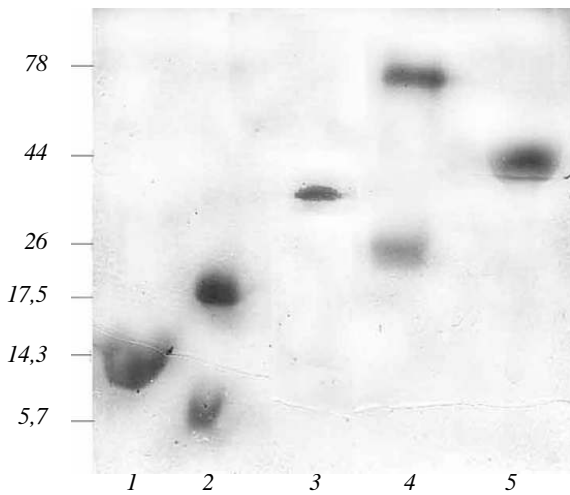
7,0, -

Αέλεο δι ό ί δαϕ έαλεό έί ό ά
10 %-ί ό ί ΑΑΑ, δι 8,6



.1.

έΆά



[10].

15-2.

9
59 %

1

10 %
(8,6)

90 % (. 1).

0,1 %- DS-Na
M_r 40

15 %-

(. 2).

M. pura

. 2.

(MPFL)

(10-15 %)

0,1 %

: 1 - ; 2 - LCL; 3 - MPFL; 4 - HPL; 5 -

[8].

[9],

6-

r = 3000

(MPF)

ma»,) 10 -AS-MX («Sig-
) 10 («Fluka», D- i D-
, 9,2, 0,08 - 1

(*Pisum sativum* agglutinin, PSA,

Faba-
(*Leucojus*

(5-10) ,

vernus agglutinin, LVA,

Amaryllidaceae),

1

()	()	()						
312	156	312	312	1250	2500	39	39	9,7

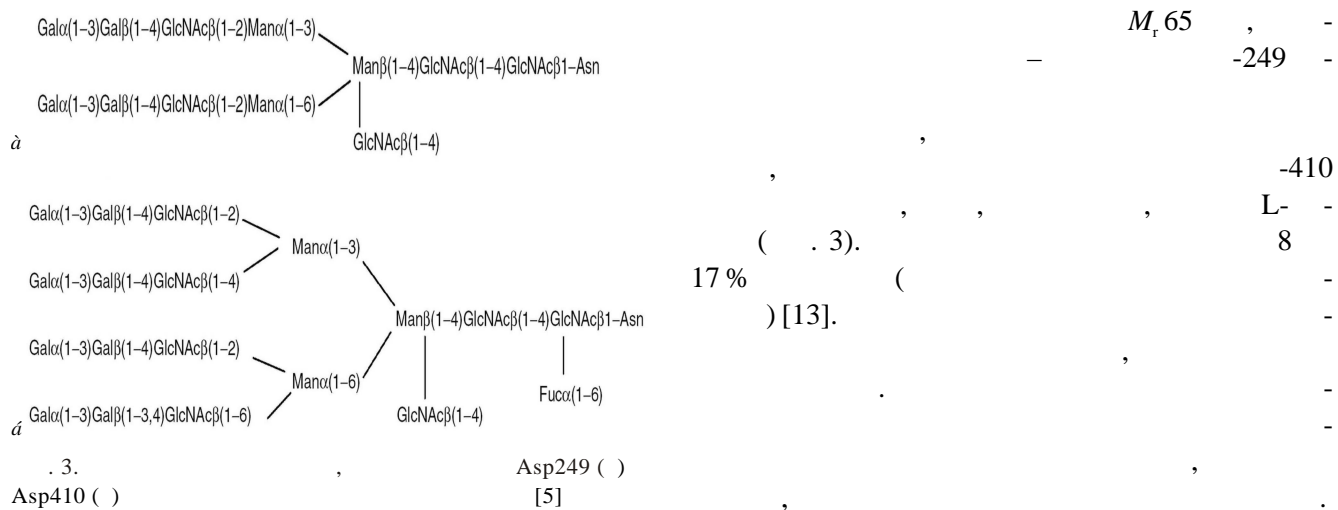
2

		4		
		MPFA	PSA	LVA
	D-	100	25	-
-	-D-	-	3,12	-
	D-	50	6,25	100
-	-D-	25	3,12	50
N-	-D-	-	+	-
	(Gal 1,6Glc)	-	-	100
	(Glc 1,4Glc)	-	25	-
	(Glc 1,1Glc)	-	25	-
	(Glc 1,6Glc)	100	-	-
	(Glc 1,2Fru)	-	100	-
	(Glc 1,3Fru)	100	100	100
	-6-	100	-	-

D- - , LVA MPFA
 [11].
 . 2,
 D- - -D- , L- , PSA - , LVA
 (Glc 1,4Glc), N- -
 D- , D- , L- , PSA LVA
 (PSA, LVA (. 3).
 MPFA) , (. .
 - 3.1.3.1)
 LVA , PSA - - ,
 - . PSA , [12].
 -

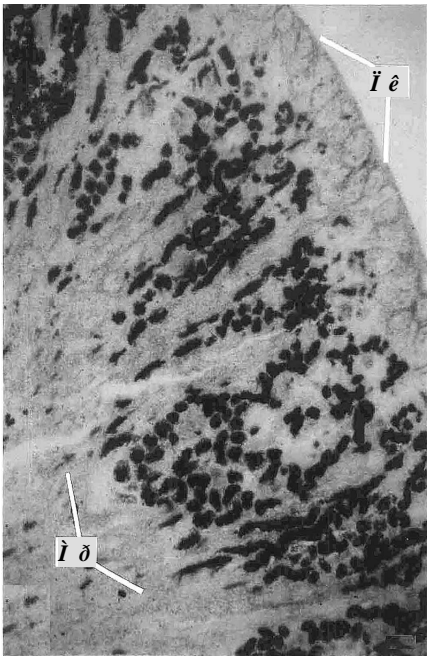
	, %		
	MPFL	PS	LV
	0,25	0,125	-
	0,125	0,03	0,5
	0,002	0,5	-
(-)	0,125	-	-
	0,06	0,5	1
	0,015	-	-
	0,125	0,06	0,25
	1	0,125	-
	0,5	+	-
G	-	0,125	-
2-	1	-	-
, 1 %	0,125	0,5	-
, 1 %	0,125	0,25	-
, 1 %	0,25	0,5	-
	0,125	-	-
(1 %)	0,5	1	-
(1 %)	-	0,125	0,03
(1 %)	1	1	1

1 %.

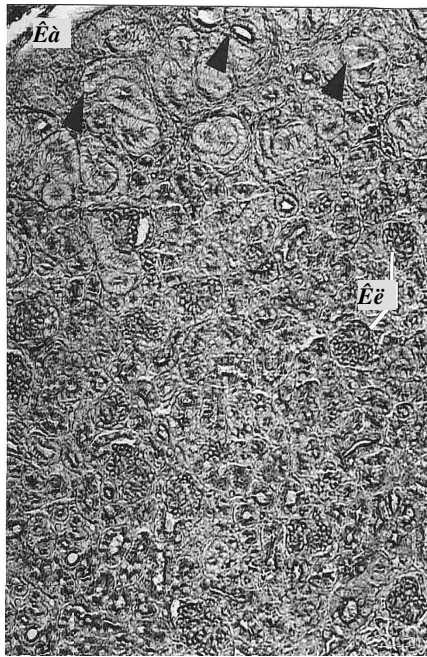


	c		
		%	
LABA ()	L-Fuc	0,25	0,04
LTA ()	L-Fuc	1	0,16
LLA ()	L-Fuc	0,03	0,005
PFA (.)	L-Fuc	0,06	0,01
STA ()	(N cDGlc) ₄	0,125	0,02
WGA ()	(N cDGlc) ₃	0,125	0,02
PNA ()	DGal > GalNAc	0,125	0,02
GNA ()	Man (1-3)Man	-	>0,16
LVA ()	Man (1-3)Man (?)	-	>0,16
- ()		0,5	0,08
SBA ()	GalNAc >> Gal	0,015	0,0025
HPA ()	-GalNAc	0,015	0,0025
LC ()	D-Man > DGlc	0,5	0,08
PSL ()	D-Man > DGlc	0,5	0,08
SRA ()	Neu5Aca(2-6)Gal > DGal	0,03	0,005
VAA ()	DGal	-	>0,16
LSFA (-)		0,03	0,005
LTFA ()		0,125	0,02
LPFA (-)		0,06	0,01
PAFA ()		-	0,16
MPFA ()	D-Man, DGlc	0,002	0,0003

1 %.

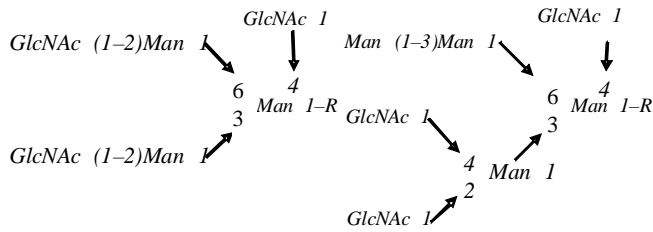


à



á

5. () (x60) -
 () (x120) -
 ; - -
 -
 (, -
 ; - -
); - -
 (- , -
)



6.

GlcNAc (1-2)Man (1-6)
 2)),
 Gal (1-3)Gal (1-4),
 GlcNAc (1-2)Man (1-2)),
 GlcNAc (1-2)Man (1-6)

1 % -
 0,15 ,
 1623
 -D-
 = 9740)
 3,2 %
 . 6 [14].

(16236 =
 -D-
 «
 Man (1-3)Man-
 »

(1-6)-
Gal, GalNAc, Fuc.

V. O. Antonyuk, . . Yastchenko, R. V. Antonyuk, N. . mbarova

Carbohydrate specificity of lectin, purified from the fruiting bodies of *Mycena pura* /Fr./ Kumm. and its use in histochemical investigation

Summary

Aim. The purpose of this investigation was to research carbohydrate specificity of a new lectin from fruiting body of *Mycena pura* and possibilities of its application in histochemical studies. **Methods.** The lectin has been purified by affinity chromatography on « vomucine». The lectin carbohydrate specificity has been determined by a reaction of inhibiting haemagglutination by haptens. Histological materials were fixed in 4 % neutral formalin solution. Alkaline phosphatase was revealed in the cryostat unfixed microscopical sections. **Results.** The lectin yield from fresh fruit bodies of raw material was 9 mg/kg. Mol. mass of the lectin is 40 kDa. The lectin poorly interacted with D-glucose and D-mannose in contrast to lectins from *Pisum sativum* and *Leucojum vernum*. The peculiarity of this lectin is its strong interaction with alkaline phosphatase, the highest among twenty tested lectins. However, the receptors for *Mycena* lectin binding in mammalian tissues are not limited by this enzyme being presented also by glycoconjugates of another structure, as it was shown for fetus calf small intestine and kidney of rat. **Conclusions.** An important role in the lectin interaction with glycoproteins probably belongs to the disaccharide links of GlcNAc (1-2)Man (1-6) or GlcNAc (1-2)Man (1-2), which not necessarily are terminal.

Keyword: *Mycena pura*, lectins, histochemistry, alkaline phosphatase.

GlcNAc (1-2)Man (1-6)
2),
Gal (1-4)

GlcNAc (1-2)Man (1-
Gal (1-3)

2.

20

F

(*Mycena pura* /Fr./ Kumm.),

M. pura

3.

4 %-

Man(1-3)Man-

9 1

40

-1-6

D- *Pisum sativum* D- *Leucojum vernum*.

20

2) *Man (1-6)* *GlcNAc (1-2)Man (1-2)*,

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