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(11)
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(51)	(Int. Cl.)	(73)	
	<i>A61K 8/9789</i> (2017. 01) <i>A23L 33/00</i> (2016. 01)		
	<i>A23L 33/105</i> (2016. 01) <i>A61K 36/185</i> (2006. 01)		13 2 210 (
	<i>A61Q 15/00</i> (2006. 01) <i>A61Q 19/10</i> (2006. 01))
(52)	CPC	(72)	
	<i>A61K 8/9789</i> (2017. 08)		
	<i>A23L 33/105</i> (2016. 08)		95 105 101
(21)	10-2024-0129794		
(22)	2024 09 25		141-4, 108 40
	2024 09 25	3	
(56)		()	
	KR1020200063440 A*	(74)	
	KR1020220045348 A		
	*		
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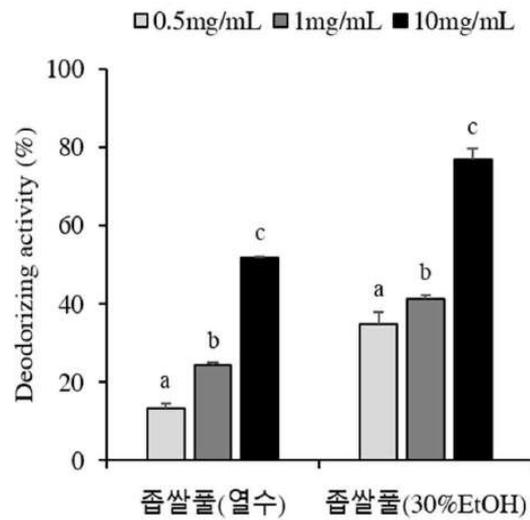
(54)

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(52) CPC								
<i>A23L 33/40</i> (2016.08)							76-25	101
<i>A61K 36/185</i> (2024.05)					1205			
<i>A61Q 15/00</i> (2013.01)								
<i>A61Q 19/10</i> (2013.01)							91, 1119	1303
(72)							448, 106	1205
		5	25, 101	1501				
			20					108
702								
								136, 102
102								
			11, 106	201				

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[0001] (*Lysimachia davurica* *Lysimachia vulgaris* var. *davurica* R. Kuntz)

[0003]

[0004]

al kenal), 4 -2, 4 -2 (Uchi da K (2000) Free Radic. Biol. 2 (2-

[0018]

[0019]

[0020]

[0021]

[0022]

[0023]

[0024]

[0025]

[0026]

[0027]

[0028]

(G1 Soluble Licorice(Glycyrrhiza) Extract)

1,3

[0050] EDTA()

[0051]

[0052]

[0053] B1, C, E, B12

[0054]

[0055]

[0057]

[0058]

[0060] 1 2
2 2

[0061]

[0063] < >

[0064] 1.

[0065] 50g 1L , 3 100
- 40 ~ 40 72
7.6g(15.2%)

[0066] 50g 30% 1L 3 60
30% 6.2g(12.4%)

[0067] 2

[0068] 2 1 2-

[0069] 30% 2-
1mL (pH 7.4) 0.1mM 2- 10ng/mL 37 30%
24 HPLC 2-

1

[0070]

HPLC

System	Waters HPLC systeme2695
Column	YMC Pack pro C18 (4.6mm× 250mm, 5μ m)
Flow rate	1.0ml/min
Detector	PDA (226nm)
Injection vol.	20μ L
Column temp.	30
Mobile phase	A: 0.1% Formic acid in Acetonitrile B: 0.1% Formic acid in water 0 - 30 min, 10 - 100% A; 40 min, 100% A

[0071]

2 1 , 2 1 , 0.5, 1, 10ng/mL
30% 2- , 2-
, 10ng/mL , 30% 51.65% 76.77% 2-

2

[0072]

2-

	0.5 ng/mL		1 ng/mL		10 ng/mL	
	(%)		(%)		(%)	
	13.13	1.28	24.18	0.62	51.65	0.38
30%	34.88	2.94	41.23	1.00	76.77	2.74

[0073]

2 2 2-

[0074]

2-

[0075]

100ng, 500ng, 0.12M (pH 6.0), 1.25mL, 20mL
1mL, 105, 1, 3
2- , 2-
2-

3

[0076]

Headspace	Agilent 7697A	GC	Agilent 8890 GC
Oven temp.	80	Inlet	225 , Split (10:1)
Loop temp.	90	Column	DB-WAX U (30m× 0.25mm, 0.25μ m)
Transfer line temp.	100	Oven temp.	80 (5min) 5 /min 200 (5min)
Vial equilibration time	5min	Injection vol.	1μ L
Injection duration	0.5min	Column flow	1mL/min (He)
GC cycle time	41min		
MS	Agilent 7010B Triple Quadrupole GC/MS		
Source temp.	230		
MS1 Quad temp.	150		
MS2 Quad temp.	150		

Scan type	SIMnode (m/z 55, 83, 111)
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[0077]

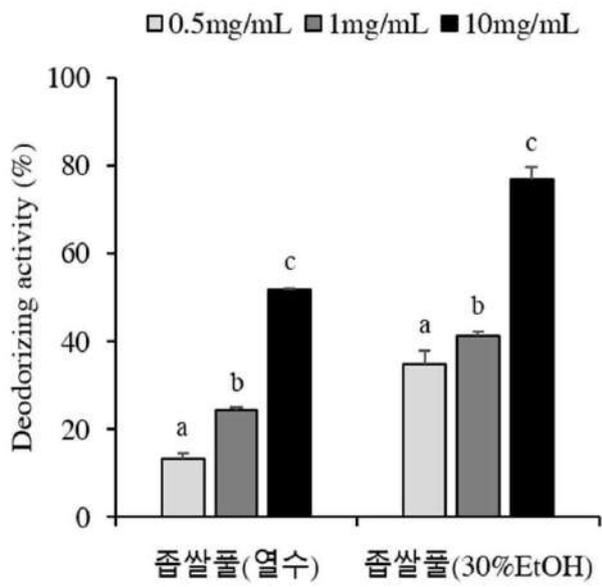
4 2 , 4 2 , 2
 2- 6.48
 μ g/mL 30% 2- 2- 4.08 μ g/mL
 2.32 μ g/mL 2- 39.60% 68.87%
 30%

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[0078]

	2- (μ g/mL)	(%)
	6.48	-
	4.08	39.60
30%	2.32	68.87

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