

		2004	17	.....	4
	7	2008	12	).....	4
1	.....				4
2	.....				5
3	.....				5
4	.....				6
5	L	.....			7
6	.....				7
7	.....				8
		(2008	20	.....	8
8	.....				9
9		GM080	GMNL 33	.....	9
10		R0052		.....	10
11		R0011		.....	10
12	.....				11
13	.....				11
14		299v		.....	12
15		CGMCC NO.1258		.....	13
16	.....				13
17	.....				14
	6		2009	1	15
					16
18	.....				16
	ST		2009	12	17
19	.....				17
20	.....				18
21	.....				19
22	.....				20
23	(	ST	).....		21
24	.....				21
		7	2009	18	22
25	.....				22
26	.....				22
27	.....				23
28	.....				23
29	.....				24
30	.....				25
31	.....				25
	DHA		7		2010
3	.....				26

32	DHA	.....	26
33		.....	27
34		.....	27
35		.....	28
36		.....	29
37		.....	30
38		.....	30
	( ) 5	2010	9
		.....	31
40		.....	31
41	( )	.....	32
42		.....	32
43		.....	33
44		.....	33
		3	2010
15		.....	34
45		.....	34
46		.....	35
47		.....	36
		(2010 17 )	36
48		.....	37
49		.....	37
	2	2011 1	38
50		.....	39
51		.....	39
		2011 9	40
52		.....	40
53		.....	41
		2011 13	41
54		.....	41
		2012 2	42
55		.....	42
		.....	43
56		.....	43
57		.....	43
58		.....	44
	4	2012 19	44
59		.....	45
60		.....	45
61		.....	45
62		.....	46

	7	2013	1	).....	46
63				.....	47
64				.....	47
65				.....	47
66				.....	48
67				.....	48
68				.....	49
69				.....	49
	8	(2013	10	).....	49
70				.....	50
71				.....	50
72				.....	51
73				.....	51
74				.....	51
75				.....	52
76				.....	52
	3	2013	16	.....	53
77				.....	53
78				.....	54
79				.....	54
	6	2014	6	.....	54
80				.....	55
81				.....	55
82				.....	56
83				.....	56
84				.....	56
85				.....	57
		2014	12	.....	57
86				.....	57
		2014	15	.....	57
87				.....	58

2004

17

2004 08 20

2004 17

1998 1998 ( 1998 9 )

7

2008 12

)

2008 05 26

L

7

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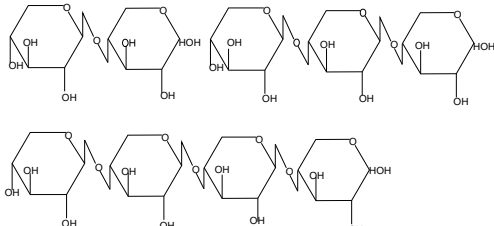
7

1

	Lactobacillus acidophilus

	DSM13241	
		3.0× 10 <sup>10</sup> cfu/g
		4.0
	, >80	

2

	Xylo oligosaccharide	
	—	
	 <p>C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> n n 2 7 300.28 1050.98</p>	
	1.2 /	
	—	70.0
	—	50.0
		70.0 ± 1.0
	pH	3.5 6.5
		0.3

3

	Sodium Hyaluronate

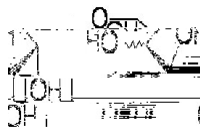
	Streptococcus equi subsp. zooepidemicus	
	$(C_{14}H_{20}NNaO_{11})_n$ $n$ 200 10000 $8.02 \times 10^4$ — $4.01 \times 10^6$	
	200 /	
		87.0
		10.0
	pH	6.0 8.0
		13.0

4

	Lutein Esters	
	( CAS : 547 17 1)	
	: C72H116O4 1045.71	

	12	/
		> 55.8%
		< 4.2 %
		<10 ppm
		<10 ppm

5 L

	L	
	L Arabinose	
	$  \begin{array}{c}  \text{H}-\text{C}=\text{O} \\    \\  \text{H}-\text{C}-\text{OH} \\    \\  \text{HO}-\text{C}-\text{H} \\    \\  \text{HO}-\text{C}-\text{H} \\    \\  \text{CH}_2\text{OH}  \end{array}  $  <p style="text-align: center;">C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> 150.13</p>	
	L	99.0%
		1.0%
		0.1%
		154 158
	[ ] <sub>20D</sub> C=5 H <sub>2</sub> O 24h	+100° +104°

6

	Acanthopanax sessiliflorus

	4.5 /
	100.0
Re	1.0
	0.1
	10.0%
	8.0%

7

	Aloe Vera Gel	
	:	
	30 /	
	mg/kg	7.0
	mg/kg	200.0
	O mg/kg	175.0
	pH	4.0 5.5

(2008 20

2008 09 18

2008 20

GM080 GMNL 33

R0052

R0011

299v

CGMCC NO.1258

10



8

	Galacto Oligosaccharides	
	$\begin{array}{c} \text{CH}_2\text{OH} \\ \text{CH}_2\text{OH C}_5\text{H}_5(\text{OH})_3\text{O} [\text{O C}_5\text{H}_5(\text{OH})_2\text{O}]_n \text{O C}_5\text{H}_5(\text{OH})_3\text{O CH}_2\text{OH} \\ \text{C}_6\text{H}_{11}\text{O}_5 \quad n \quad n \quad 2 \quad 8 \\ 300 \quad 2000 \quad   \end{array}$	
	15 /	
	(	57.0%
	)	23.0%
		22.0%
		74.0 76.0%
	pH	2.8 3.8

9

GM080 GMNL 33

--	--

	Lactobacillus paracasei	
	GM080 GMNL 33	
		2.0× 10 <sup>9</sup> cfu/g
		8.0

10

R0052

	Lactobacillus acidophilus	
	R0052	
		100× 10 <sup>9</sup> CFU/g
		5%

11

R0011

	Lactobacillus rhamnosus	

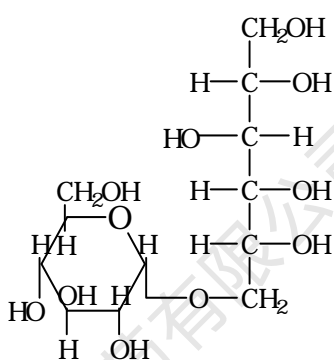
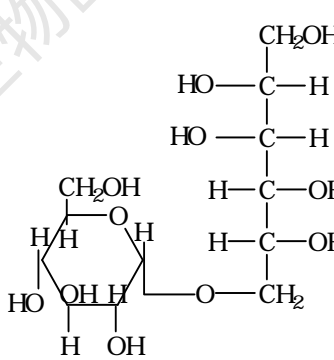
	R0011	
		100× 10 <sup>9</sup> CFU/g
		5%

12

	Bonepep	
	1 /	
		60
	100 5000	75%
		5
		8
		10

13

	Isomaltitol			
	D	1 6	GPS	D
	1 1	GPM		

	<div style="text-align: center;">  <p>(GPS)</p>  <p>(GPM)</p> <p>GPS C<sub>12</sub>H<sub>24</sub>O<sub>11</sub>    GPM C<sub>12</sub>H<sub>24</sub>O<sub>11</sub> · 2H<sub>2</sub>O  GPS 344.32    GPM 380.32</p> </div>								
	100 /								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="text-align: right;">85%</td> </tr> <tr> <td></td> <td style="text-align: right;">0.3%(    )</td> </tr> <tr> <td></td> <td style="text-align: right;">0.5%(    )</td> </tr> <tr> <td></td> <td style="text-align: right;">15%</td> </tr> </table>		85%		0.3%(    )		0.5%(    )		15%
	85%								
	0.3%(    )								
	0.5%(    )								
	15%								

14

299v

	Lactobacillus Plantarum

	299v	
		100× 10 <sup>9</sup> CFU/g
		5%

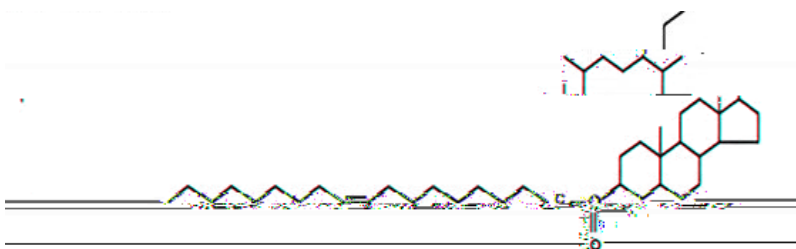
15

CGMCC NO.1258

	Lactobacillus Plantarum	
	CGMCC NO.1258	
		5.0× 10 <sup>9</sup> cfu/g
		6.0

16

	Plant stanol ester

	 <p>C47H84O2 681.2</p>	
	5 /	
	5	
		55%
		5%
		0.1%
		0.1%

**17**

	Globin Peptide
	:
	3 /
	85.0%

	100 1500	85.0%
	VVYP	0.5
		1.0
		10.0
		5.0
		6.0
	VVYP Val Val Tyr Pro 4 476.6	VVYP C24H36O6N4

**6**

**1**

**2009**

2009 02 19

2009 1

30

“ ” “ ” “ ”

2009 9 1

2009 3

18

	Cordyceps militaris
	2 /
	100.0



		0.055
		2.5

-

**ST-**

**2009**

**12**

2009 10 10

2009 12

ST

6

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6

**19**

	Gamma aminobutyric acid
	NH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> COOH C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub> 103.12

	L Lactobacillus hilgardii	
	500 /	
		20
		10
		18

**20**

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Colostrum Basic Protein
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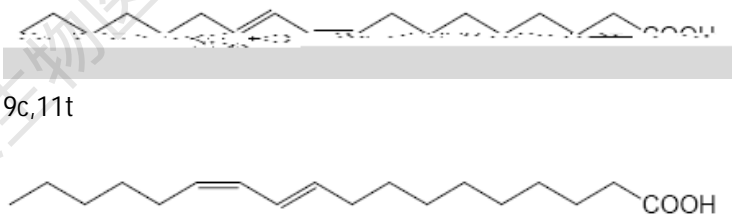


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100 /
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	80
1 30kda	50
	7
	3

	Conjugated Linoleic Acid																		
	(C18:2), 9c,11t 10t,12c																		
	 <p>9c,11t</p> <p>10t,12c (c t ) C18H32O2 280.44</p>																		
	< 6 /																		
	<table border="1"> <tr> <td></td> <td>700 800 mg/g (w/w)</td> </tr> <tr> <td>C18:2 (9c,11t 10t,12c )</td> <td>78% 84%( , )</td> </tr> <tr> <td>C18:1 c9</td> <td>10% 20%( , )</td> </tr> <tr> <td>C16:0</td> <td>&lt;4%( , )</td> </tr> <tr> <td>C18:0</td> <td>&lt;4%( , )</td> </tr> <tr> <td>C18:2 c9,c12</td> <td>&lt;3%( , )</td> </tr> <tr> <td>C18:2, 9c,11t</td> <td>37.5% 42.0%( , )</td> </tr> <tr> <td>C18:2, 10t,12c</td> <td>37.5% 42.0%( , )</td> </tr> <tr> <td>C18:2, 9c,12c</td> <td>0 3.0%( , )</td> </tr> </table>		700 800 mg/g (w/w)	C18:2 (9c,11t 10t,12c )	78% 84%( , )	C18:1 c9	10% 20%( , )	C16:0	<4%( , )	C18:0	<4%( , )	C18:2 c9,c12	<3%( , )	C18:2, 9c,11t	37.5% 42.0%( , )	C18:2, 10t,12c	37.5% 42.0%( , )	C18:2, 9c,12c	0 3.0%( , )
	700 800 mg/g (w/w)																		
C18:2 (9c,11t 10t,12c )	78% 84%( , )																		
C18:1 c9	10% 20%( , )																		
C16:0	<4%( , )																		
C18:0	<4%( , )																		
C18:2 c9,c12	<3%( , )																		
C18:2, 9c,11t	37.5% 42.0%( , )																		
C18:2, 10t,12c	37.5% 42.0%( , )																		
C18:2, 9c,12c	0 3.0%( , )																		

	9t,11t 10t,12t	<1% ( )
	1. 2.	

22

	Conjugated Linoleic Acid Glycerides	
		
	R t )	C18:2 9c,11t 10t,12c c
	< 6 /	
		77% 83
		17% 23
		<1
		700 800 mg/g (w/w)
	C18:2 (9c,11t 10t,12c )	78%– 84%( , )
	C18:1 c9	10%– 20%( , )
	C16:0	< 4 ( , )
	C18:0	< 4 ( , )
	C18:2 c9,c12	< 3 ( , )
	C18:2, 9c,11t	37.5% – 42.0% ( , )

		)
	C18:2, 10t,12c	37.5% - 42.0% ( , )
	C18:2, 9c,12c	0.3.0%( , )
	9t,11t 10t,12t	<1% ( )
	1. 2.	

**23 ( ST )**

	Lactobacillus plantarum	
	ST	
		1.0× 10 <sup>11</sup> CFU/g
		5%

**24**

	Eucommia ulmoides Oliv. Seed Oil	
	3 /	
	( )	
	C18:3	45
	(C18:1)	13
	(C18:2)	10
	(C16:0)	6
	(C18:0)	2

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2009 18

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## 25

	Tea Camellia Seed Oil	
	Theaceae (Camellia sinensis OK.tez)	
	15 /	
	( )	
	(C18:1)	40 60
	(C18:2)	15 35
	(C16:0)	13 20
	(C18:0)	2 6

## 26

	Dunaliella Salina extract	
	15 /	

		2	8
	1	2	8
	2	8	

27

	Fish Oil extract		
	(DHA)		(EPA)
	3 /		
	DHA	36mg/g	125mg/g
	EPA	27mg/g	80 mg/g
	EPA+DHA	144mg/g	230mg/g
		3.0%	1.0
	1	DHA 36 125mg/g	DHA
	2	125mg/g	

28

	Diacylglycerol Oil

	30 /	
		40
		58
		1.5
		0.5

29

	Earthworm Protein	
	Eisenia foetida Savigny	
	10 /	
		65
		8.0
		9.0%
	“ ”	



Milk Minerals

5 /

23.0 28.0

10.0 14.0

5.0

1.0

6.0 10.0

70.0 78.0

6.0

		90
		70
		5
		5
		5

**DHA**

**7**

**2010**

**3**

2010 03 15

2010 3

DHA

7

Rose rugosa cv. Plena

Mesona chinensis

Benth.

Prunella vulgaris L.

Microcos

paniculata L.

Plumeria rubra L.cv.Acutifolia

:7

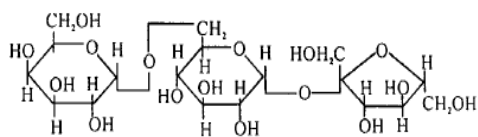
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**32 DHA**

	DHA
	DHA Algal Oil
	(DHA)
	Schizochytrium sp. Ulkenia amoeboida Cryptocodinium cohnii
	( ) DHA

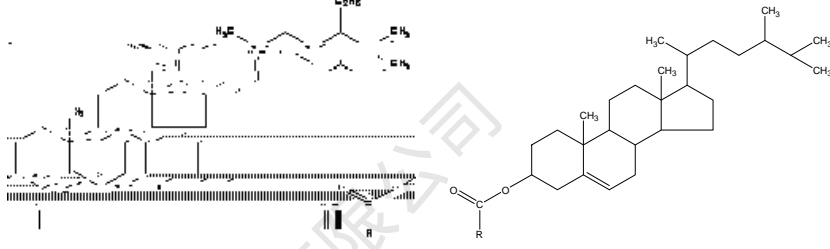
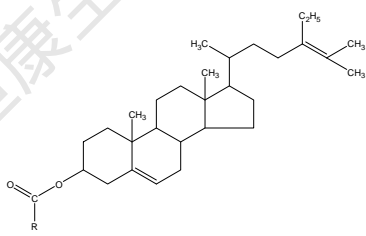
	300 / DHA	
	DHA	35g/100g
		1
		0.05%

33

	Raffino oligosaccharide	
	 <p>C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504</p>	
	5 /	
		70.0%
		45.0%
		5.0%
		5.0%
		10mg/kg
		1mg/kg
		10 mg/kg

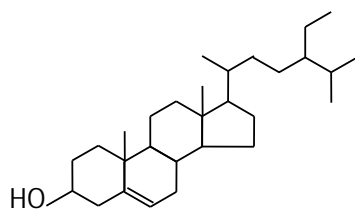
34

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	Plant sterol ester	
	 <p>C47O2H80 C46O2H78 676</p> <p>662</p> 	
	3.9 /	
		97%
		90%
		6%
		59% (w/w)
		1 mgKOH/g
		5 meq/kg

35

	Plant sterol



C29H50O  
414.71

C28H48O  
: 400.606Bv+nG5C29H50O

--	--

37

	Gynura divaricata(L.)DC

38

	Poppyseed oil
	25 /
	( )
	(C16:0) 8.9 10.2
	(C18:0) 1.5 2.7
	(C18:1) 15.1 23.5
	(C18:2) 60.0 81.0

---

C18:3

0.42 0.90

---

- 1.
- 2.
- 3.

2005 349

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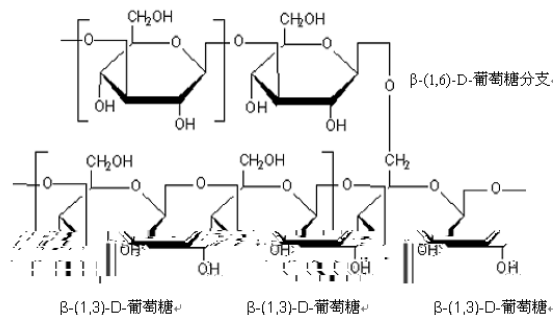
41 ( )

	( )	
	Inula nervosa wall.ex DC.	
	:	
	,	
	5 /	
	8,9—	4.0 mg /g
		13
		0.4

42

	Noni Puree	
	Morinda citrifolia L.) Noni	
	20	7.0 9.0
	pH	3.5 4.2
		90 93



	Yeast glucan
	1,3 / 1,6
	: <i>Saccharomyces cerevisiae</i>
	 <p><math>(C_6H_{12}O_6)_n</math> n 125 25000 2 400</p>
	250 /
	70%
	3.5%
	10%
	8%
	3%

Tissue culture of *Saussurea involucrata*

*Saussurea involucrata*

	80 /	4 /	
		1%	20%
		0.4%	7%
		96	10
		1	10

3

2010 15

2010 11 01

3

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45

	Sucrose Ployesters
	6 7 8
	<p>R 8 22 2400 280</p>

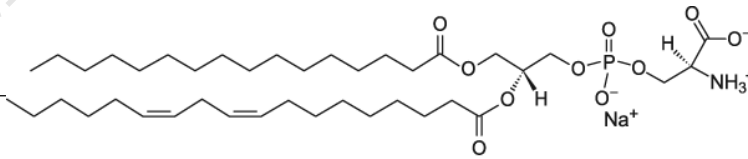
/

3.1 /

6 7 8

	1. 2.AY Ala Tyr	252.12
--	--------------------	--------

47

	Phosphatidylserine	
		
	Structure of predominant species	
	600 /	
		50.0 60.0
		95
		2
		25 ppm

(2010 17 )

2010 11 11

2010 17

2010 4

2010

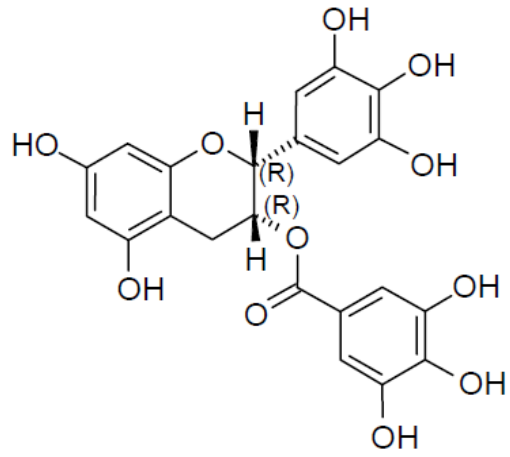
65

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**48**

Haematococcus pluvialis



C22H18O11

458.4

300 / EGCG

94%( )

0.1%

5%

50

	Elaeagnus Mollis Diels Oil	
	15 /	
	( )	
	(C18:1)	28
	(C18:2)	42
	C18:3	5
	1. 2.	

51

	Calcium hydroxy methyl butyrate CaHMB	
	$\left( \begin{array}{c} \text{OH} \\   \\ \text{CH}_3 - \text{C} - \text{CH}_2 - \text{C} - \text{O} \\   \\ \text{CH}_3 \end{array} \right)_2 \text{Ca} \cdot \text{H}_2\text{O}$	
	$\text{C}_{10}\text{H}_{18}\text{O}_6\text{Ca} \cdot \text{H}_2\text{O}$	
	292	
	3 /	
		77.82%
		12.16%
		5.75%

	1. 2.
--	----------

**2011**

**9**

2011 03 29

2011 9

: 2

**52**

	Acer truncatum Bunge Seed Oil	
	3 /	
	( )	
	C18:2	30.0%
	C18:1	15.0%
	C24:1	3.0%



53

	Peony Seed Oil
	( <i>Paeonia ostii</i> T.Hong et J.X.Zhang) ( <i>Paeonia rockii</i> )
	10 /
	( )
	C18:3 38.0%
	C18:2 25.0%
	C18:1 21.0%

2011 13

2011 06 16

2011 13

54

	<i>Lepidium meyenii</i> Walp

25 /

1.

10%  
10%  
10%

**1.**





59

	Chlorella pyrenoidesa	
	20 /	
	/ g/100g	58
	/ g/100g	5
	/ g/100g	5
	1. 2.	

60

	Linderae aggregate leaf	
	Linderae aggregate	
	5 /	
	1. 2.	

61

	Moringa oleifera

62

	Sucrose Ployesters	
	6	7 8
	10.6	/
	6	7 8
	97%	
	1.	
	2.	2010 15

7

2013

1 )

2013 01 15

2013

1

2013 1 4

WA. 7  
AS**63**

	Tea blossom
茶花	Camellia sinensis(L.)O.Kuntze

**64**

	Suaeda salsa seed Oil
	Suaeda salsa(L.)pall
	( )
	(C18:2) 50
	(C18:1) 10
	C18:3 5
	1. 2.

**65**





68

	Acai Euterpe oleraceae Mart.)

69

	Ryvarden Phylloporia ribis Schumach:Fr.
	50 /
	1. 2.

8 (2013 10)

2013 11 26

2013 10

1,6

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2013 10 30

8

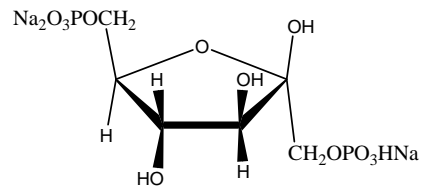
70

	<i>Euglena gracilis</i>
	1. 2.

1,6

1,6

D Fructose 1,6 diphosphate trisodium salt



$C_6H_{11} Na_3O_{12}P_2 \cdot 8H_2O$

550.17

300

	Paeonia ostii T.Hong et J.X.Zhang

72

	Isodon lophanthoides(Buchanan Hamilton ex D.Don)H.Hara var. gerardianus(Bentham)H.Hara
	8 /
	1. 2. 3.

73

	Amygdalus pedunculata Oil
	( Amygdalus pedunculata Pall.)
	( )
	(C18:1) 70
	(C18:2) 26
	1. 2.

74


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	Swida wilsoniana Oil
	( Swida wilsoniana)
	( )
	(C18:2) 38
	(C18:1) 20
	C16:0 15
	1. 2.

75

	Cyclocarya paliurus
	1. 2.

76

	Mannan oligosaccharide(MOS)
	—
	:
	 n
	: C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> n n 2 10
	:342.3 1639.44
	,
	1.5 /

	(g/100g)	85
	(g/100g)	50
	(g/100g)	5
	pH	5.0 8.0
	1. 2.	

3

2013

16

2014 01 06

2013

16

:

3

2013 12 24

3

77

	grossedentata Ampelopsis
	1 2

Krill Oil

Euphausia superba Dana

3 /

(g/100g)

38

DHA(g/100g)

3

EPA(g/100g)

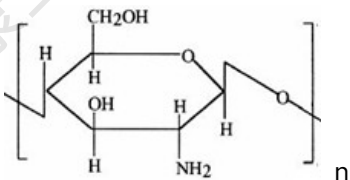
6

1.

2014 4 16

6

**80**

	Chitosan Oligosaccharide								
	2 10								
	 <p style="text-align: center;"> <math>C_6H_{11}O_4N</math>    <math>n</math>    2 10              322 1610         </p>								
	0.5 /								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">2 10 (g/100g)</td> <td style="text-align: center;">80</td> </tr> <tr> <td style="text-align: center;">(g/100g)</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">(g/100g)</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">pH</td> <td style="text-align: center;">5.0 7.0</td> </tr> </table>	2 10 (g/100g)	80	(g/100g)	1	(g/100g)	10	pH	5.0 7.0
2 10 (g/100g)	80								
(g/100g)	1								
(g/100g)	10								
pH	5.0 7.0								
	1. 2.								

**81**

	Silybum marianum Seed oil
	Silybum marianum

(	)
(C18:2)	40
(C18:1)	30

1.



	1. 2.
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**85**

	Pediococcus pentosaceus
	1. 2.

**2014 12**

2014 07 14

2014 12

:

2014 6 26

**86**

	(Leguminosae) Aspalathus Linearis(Brum.f.)R.Dahlgren
	1. 2.

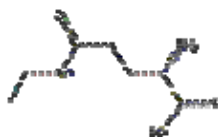
**2014 15**

2014 07 30

2014 15

2014 7 18

87

	Theanine	
	: Camellia sinensis	
		
	:C <sub>7</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>	
	:174.2	
	0.4 /	
	(g/100g)	20
	(g/100g)	8
	1.	
	2.	