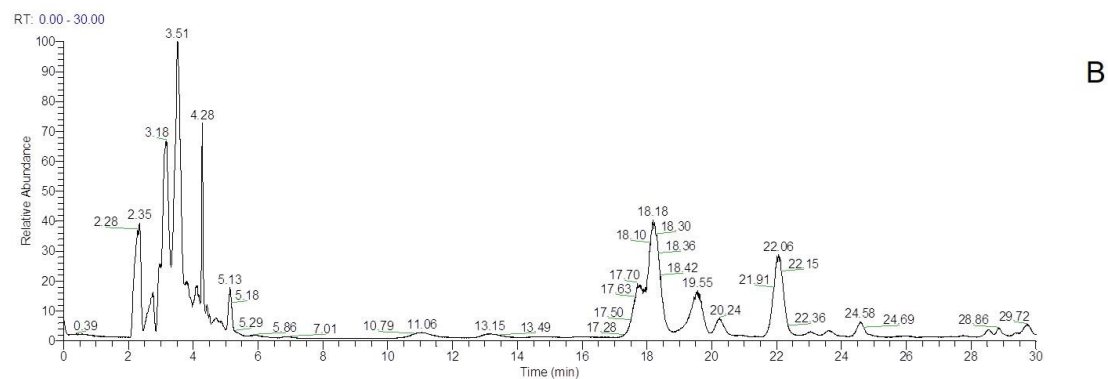
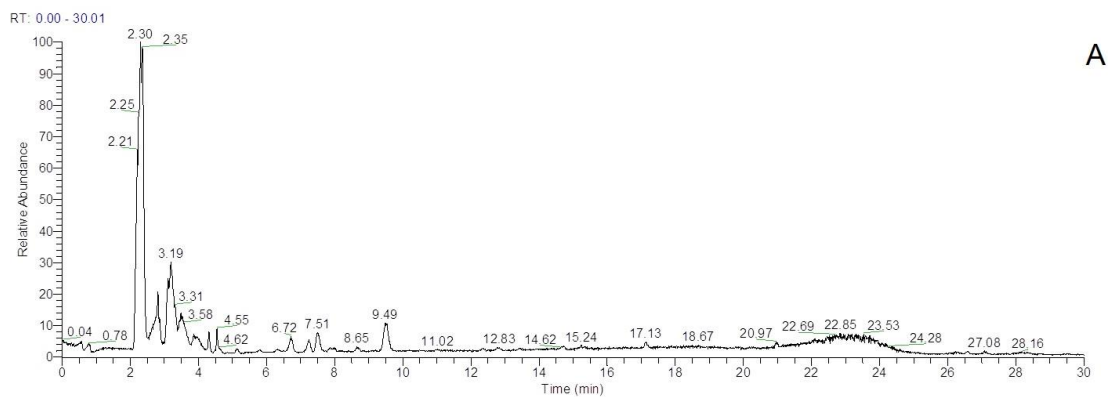


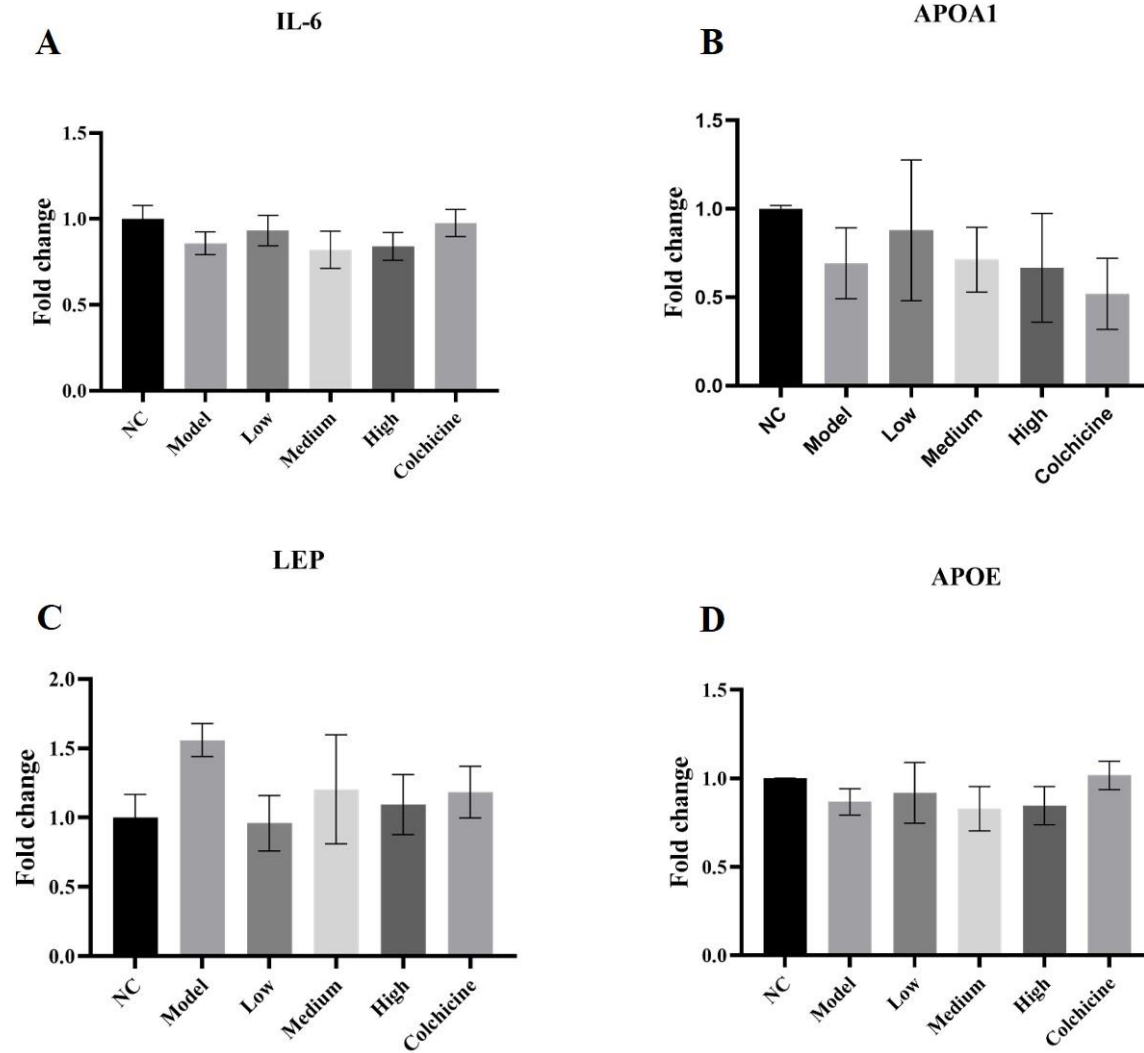
## Supplementary Material

### Supplementary Figures and Tables

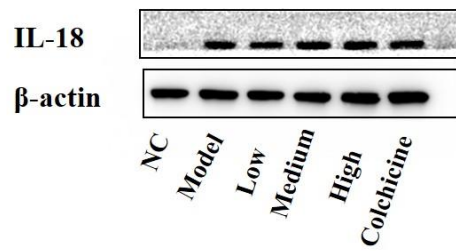
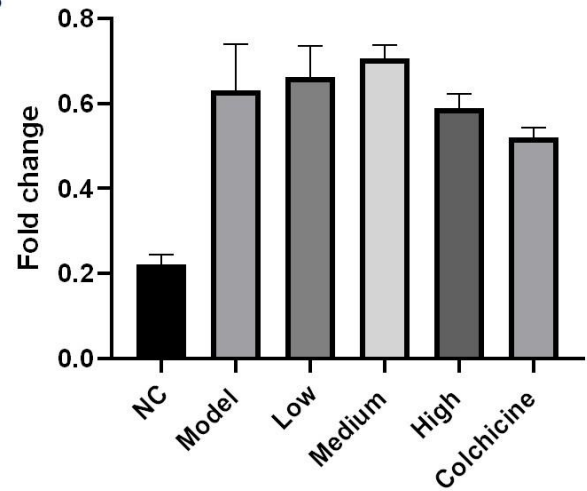
#### 1.1 Supplementary Figures



**Supplementary Figure 1 HPLC analysis of WWXDD:** The BPC of WWXDD in positive (A) and negative (B) mode.



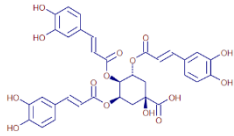
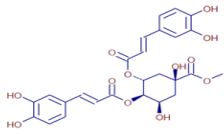
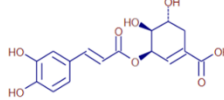
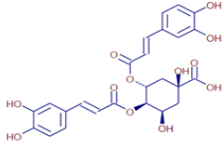
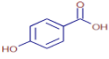
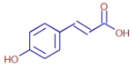
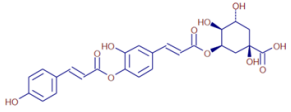
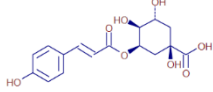
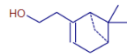
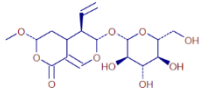
**Supplementary Figure 2** Expression of WWXDD on core target genes in inflamed joint tissues of MUS-induced arthritis rats by RT-PCR. There was no significant difference in the expression of IL-6, APOA1, APOE, and LEP among all groups.

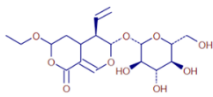
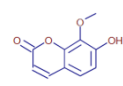
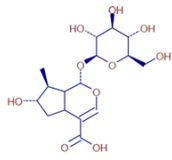
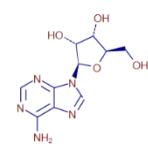
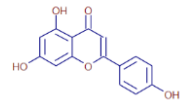
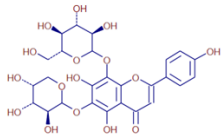
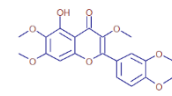
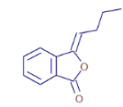
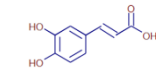
**A****B**

**Supplementary Figure 3** Expression of WWXDD on IL-18 protein expression in inflamed joint tissues of MUS-induced arthritis rats. The findings revealed that there was no substantial variation in the levels of IL-18 expression among the Model, WWXDD, and Colchicine groups.

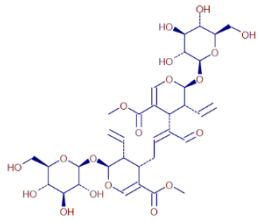
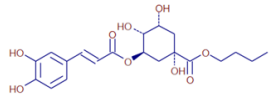
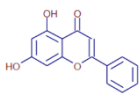
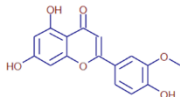
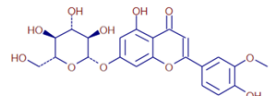
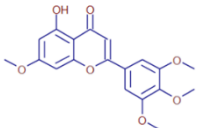
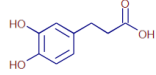
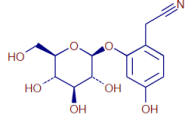
## 1.2 Supplementary table

Table 1: Mass spectrometry information of chemical components in Wuwei Xiaodu Drink

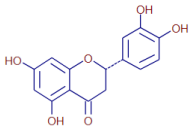
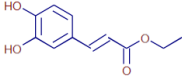
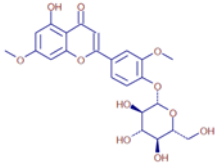
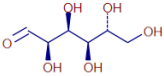
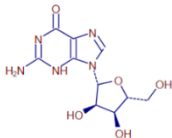
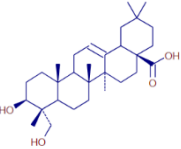
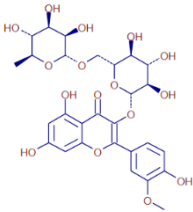
No.	Name	RT (min)	Formula	Ion Type	Molecular Ion ( <i>m/z</i> )	Structure
1	3,4,5-Tricaffeoylquinic acid	14.667	C <sub>34</sub> H <sub>30</sub> O <sub>15</sub>	[M+H] <sup>+</sup>		
2	3,4-O-Dicaffeoyl quinic acid methyl ester	17.19	C <sub>26</sub> H <sub>26</sub> O <sub>12</sub>	[M-H] <sup>-</sup>	179.0551	
3	3-O-Caffeoylshikimic acid	7.467	C <sub>16</sub> H <sub>16</sub> O <sub>8</sub>	[M+H] <sup>+</sup>	375.1271	
				[M-H] <sup>-</sup>	373.1134	
4	3,4-dicaffeoylquinic acid	14.672	C <sub>25</sub> H <sub>24</sub> O <sub>12</sub>	[M+H] <sup>+</sup>	183.0862	
5	4-Hydroxybenzoic acid	8.966	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	[M+H] <sup>+</sup>	343.1227	
				[M-H] <sup>-</sup>	341.1083	
6	4-Hydroxycinnamic acid	9.466	C <sub>9</sub> H <sub>8</sub> O <sub>3</sub>	[M+H] <sup>+</sup>	159.0512	
7	5-O-Coumaroylcaffeoylquinic acid	16.753	C <sub>25</sub> H <sub>24</sub> O <sub>11</sub>	[M+H] <sup>+</sup>	193.0706	
8	5-p-Coumaroylquinic acid	9.521	C <sub>16</sub> H <sub>18</sub> O <sub>8</sub>	[M+H] <sup>+</sup>	139.0389	
9	6,6-dimethyl-bicyclic [3.1.1] hept-2-ene-2-ethanol.	20.998	C <sub>11</sub> H <sub>18</sub> O	[M+H] <sup>+</sup>	110.0604	
10	7-epi-Vogeloside	10.699	C <sub>17</sub> H <sub>24</sub> O <sub>10</sub>	[M+H] <sup>+</sup>	193.0343	

11	7-O-Ethylsweroside	7.423	C <sub>18</sub> H <sub>26</sub> O <sub>10</sub>	
12	7-hydroxy-8-methoxycoumarin	13.919	C <sub>10</sub> H <sub>8</sub> O <sub>4</sub>	
13	8-Epi-loganic acid	8.094	C <sub>16</sub> H <sub>24</sub> O <sub>10</sub>	
14	Adenosine	3.341	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub>	
15	Apigenin	20.976	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>	
16	Apigenin 6-C-alpha-L-arabinopyranoside-8-C-beta-D-glucopyranoside	6.797	C <sub>26</sub> H <sub>28</sub> O <sub>16</sub>	
17	Artemitin	9.364	C <sub>20</sub> H <sub>20</sub> O <sub>8</sub>	
18	Butylidene phthalide	22.113	C <sub>12</sub> H <sub>12</sub> O <sub>2</sub>	
19	Caffeic acid	9.652	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	

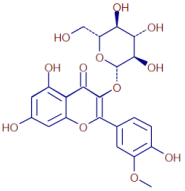
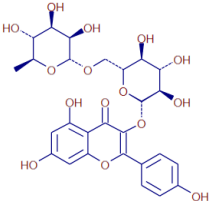
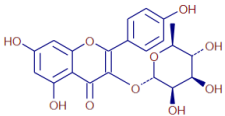
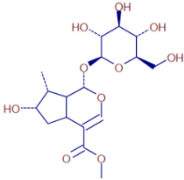

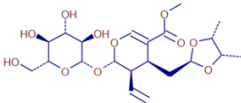
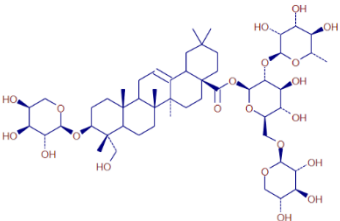
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20	Centauroside	13.46	C <sub>34</sub> H <sub>46</sub> O <sub>19</sub>	
21	Chlorogenic acid butyl ester	5.141	C <sub>20</sub> H <sub>26</sub> O <sub>9</sub>	
22	Chrysin	13.457	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>	
23	Chrysoeriol	21.185	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>	
24	Chrysoeriol 7-O-glucopyranoside	14.824	C <sub>22</sub> H <sub>22</sub> O <sub>11</sub>	
25	Corymbosin	7.497	C <sub>19</sub> H <sub>18</sub> O <sub>7</sub>	
26	Dihydrocaffeic acid	20.837	C <sub>9</sub> H <sub>10</sub> O <sub>4</sub>	
27	Ehretioside	6.934	C <sub>14</sub> H <sub>17</sub> NO <sub>7</sub>	

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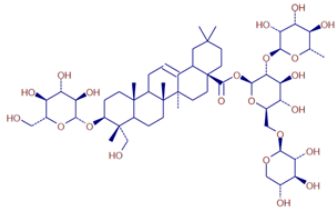
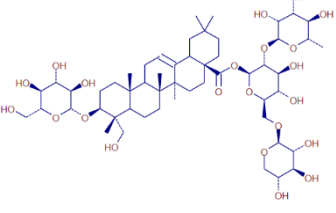
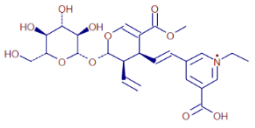
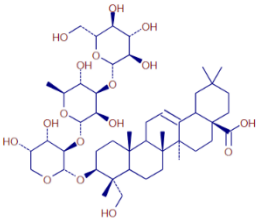
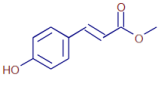
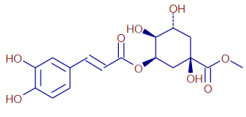
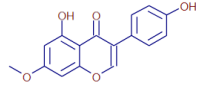
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29	Ethyl caffeate	11.225	C <sub>11</sub> H <sub>12</sub> O <sub>4</sub>	
30	Flavoyadorinin B	19.426	C <sub>23</sub> H <sub>24</sub> O <sub>11</sub>	
31	Glucose	3.132	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	
32	Guanosine	3.532	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>5</sub>	
33	Hederagenin	17.967	C <sub>30</sub> H <sub>48</sub> O <sub>4</sub>	
34	Isorhamnetin 3-O-rutinoside	7.93	C <sub>28</sub> H <sub>32</sub> O <sub>16</sub>	

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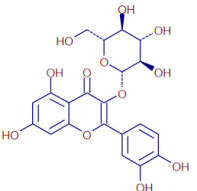
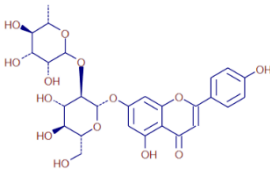
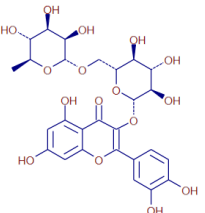
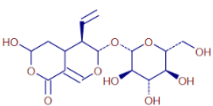
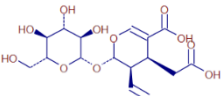
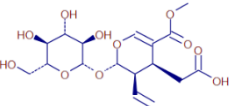
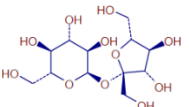
35	Isorhamnetin 3-O-glucopyranoside	16.468	$C_{22}H_{22}O_{12}$	
36	Kaempferol 3-O-rutinoside	7.675	$C_{27}H_{30}O_{15}$	
37	Kaempferol-3-O-rhamnoside	14.541	$C_{21}H_{20}O_{10}$	
38	Loganin	7.838	$C_{17}H_{26}O_{10}$	
39	Lonfuranacid A	16.464	$C_{12}H_{20}O_5$	
40	Loniceracetalide A	16.813	$C_{21}H_{32}O_{11}$	
41	Loniceroside A	17.967	$C_{52}H_{84}O_{21}$	

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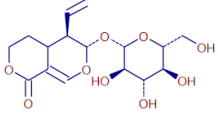
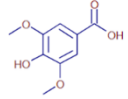
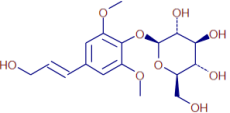
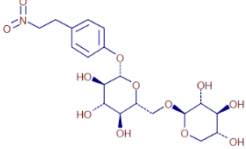
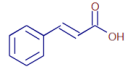
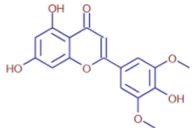
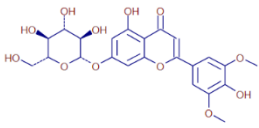
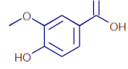
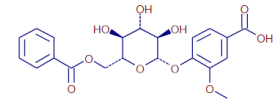


42	Loniceroside B	17.565	C <sub>58</sub> H <sub>94</sub> O <sub>25</sub>	
43	Loniceroside C	17.028	C <sub>53</sub> H <sub>86</sub> O <sub>22</sub>	
44	Lonijaposide E	3.108	C <sub>25</sub> H <sub>32</sub> NO <sub>11</sub>	
45	Macranthoside A	17.964	C <sub>47</sub> H <sub>76</sub> O <sub>17</sub>	
46	Methyl 4-hydroxycinnamate	5.141	C <sub>10</sub> H <sub>10</sub> O <sub>3</sub>	
47	Neochlorogenic acid methyl ester	10.239	C <sub>17</sub> H <sub>20</sub> O <sub>9</sub>	
48	Prunetin	17.143	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>	

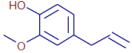
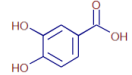
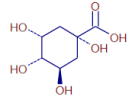
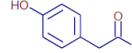
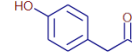
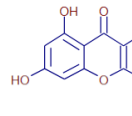
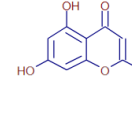
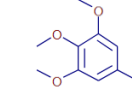
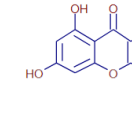
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49	Quercetin 3-O-glucopyranoside	13.727	$C_{21}H_{20}O_{12}$	
50	Rhoifolin	13.247	$C_{27}H_{30}O_{14}$	
51	Rutin	6.727	$C_{27}H_{30}O_{16}$	
52	Secologanic acid	7.251	$C_{16}H_{22}O_{10}$	
53	Secologanoside	4.533	$C_{16}H_{22}O_{11}$	
54	Secoxyloganin	7.646	$C_{17}H_{24}O_{11}$	
55	Sucrose	3.58	$C_{12}H_{22}O_{11}$	

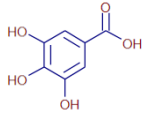
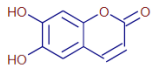
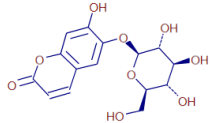
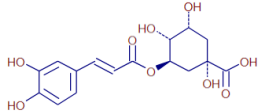
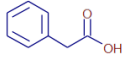
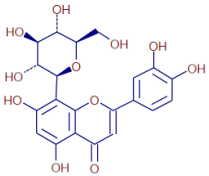
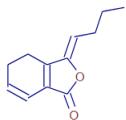
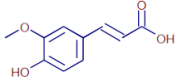
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56	Sweroside	8.665	C <sub>16</sub> H <sub>22</sub> O <sub>9</sub>	
57	syringic acid	4.902	C <sub>9</sub> H <sub>10</sub> O <sub>5</sub>	
58	Syringin	7.822	C <sub>17</sub> H <sub>24</sub> O <sub>9</sub>	
59	thalictroside	5.507	C <sub>19</sub> H <sub>27</sub> NO <sub>12</sub>	
60	trans-Cinnamic acid	7.25	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>	
61	Tricin	21.331	C <sub>17</sub> H <sub>14</sub> O <sub>7</sub>	
62	Tricin 7-O-glucoside	15.551	C <sub>23</sub> H <sub>24</sub> O <sub>12</sub>	
63	Vanillic acid	6.727	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	
64	Vanillic acid 4-O-β-d-(6-O-benzoylglucopyranoside)	14.942	C <sub>21</sub> H <sub>22</sub> O <sub>10</sub>	

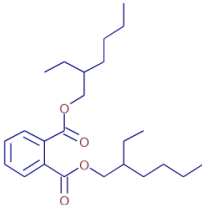
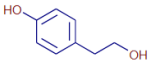
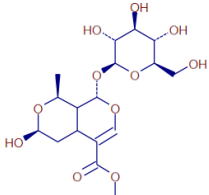
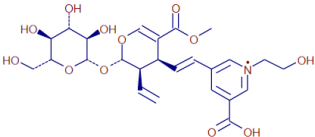
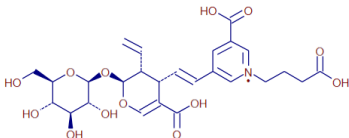
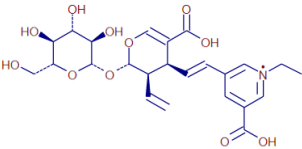
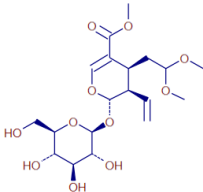
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65	Eugenol	17.531	C <sub>10</sub> H <sub>12</sub> O <sub>2</sub>	
66	Protocatechuic acid	5.596	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	
67	Quinate	3.566	C <sub>7</sub> H <sub>12</sub> O <sub>6</sub>	
68	Hydroxyphenylacetic Acid	6.496	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	
69	Ethyl P-Hydroxyphenylacetate	19.205	C <sub>10</sub> H <sub>12</sub> O <sub>3</sub>	
70	Isorhamnetin	19.223	C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>	
71	Luteolin	19.163	C <sub>15</sub> H <sub>10</sub> O <sub>6</sub>	
72	Elemicin	8.184	C <sub>12</sub> H <sub>16</sub> O <sub>3</sub>	
73	Quercetin	12.385	C <sub>15</sub> H <sub>10</sub> O <sub>7</sub>	

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74	Gallic Acid	7.806	C <sub>7</sub> H <sub>6</sub> O <sub>5</sub>	
75	Aesculetin	9.512	C <sub>9</sub> H <sub>6</sub> O <sub>4</sub>	
76	Aesculin	6.494	C <sub>15</sub> H <sub>16</sub> O <sub>9</sub>	
77	Chlorogenic Acid	7.494	C <sub>16</sub> H <sub>18</sub> O <sub>9</sub>	
78	Phenylacetic Acid	5.144	C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>	
79	Orientin	12.323	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>	
80	Ligustilide	8.184	C <sub>12</sub> H <sub>14</sub> O <sub>2</sub>	
81	Ferulic acid	7.247	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	

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82	Bis (2-ethylhexyl) phthalate	28.137	$C_{24}H_{38}O_4$	
83	p-Hydroxyphenethylalcohol	22.795	$C_8H_{10}O_2$	
84	7 $\alpha$ -Morrnionide	4.53	$C_{17}H_{26}O_{11}$	
85	Lonijaposide B	4.507	$C_{25}H_{32}NO_{12}$	
86	Lonijaposide D	20.21	$C_{26}H_{32}NO_{13}$	
87	Lonijaposide F	19.059	$C_{24}H_{30}NO_{11}$	
88	Secologanin dimethyl acetal	17.833	$C_{19}H_{30}O_{11}$	

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89

Diacetin

16.809 C<sub>7</sub>H<sub>12</sub>O<sub>5</sub>

