**Supplementary Table 1:** Structures and MSMS spectra of identified flavonoids.

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | Name | **Structure** | **Spectra** |
| **1** | Cirsimaritin |  | 155.0470  300.0633  0.2  0.4  0.6  0.8  4  x10  Intens.  50  100  150  200  250  300  350  400  m/z |
| **2** | Luteolin |  | 160.9882  0  50  100  150  Intens.  50  75  100  125  150  175  200  225  250  275  m/z |
| **3** | Rhoifolin |  | 271.0606  0.00  0.25  0.50  0.75  1.00  1.25  4  x10  Intens.  200  400  600  800  1000  1200  m/z |
| **4** | Scandenone |  | 157.0600  229.1004  295.0622  331.0996  349.1087  405.1728  0  1000  2000  3000  Intens.  50  100  150  200  250  300  350  400  m/z |
| **5** | Tecterigenine |  | 168.0026  268.0421  301.0721  0  1000  2000  3000  Intens.  100  125  150  175  200  225  250  275  300  325  m/z |
| **6** | 2-Phenyl-chromone |  | 171.0444  226.0772  0  1  2  3  4  5  4  x10  Intens.  100  125  150  175  200  225  250  275  300  325  m/z |
| **7** | Rotenone |  | 192.0776  213.0911  241.0860  335.1302  395.1493  0  1000  2000  3000  4000  Intens.  150  200  250  300  350  400  450  500  m/z |
| **8** | Confertin A |  | 240.0411  268.0369  296.0323  311.0548  329.0660  357.0964  0.0  0.5  1.0  1.5  4  x10  Intens.  220  240  260  280  300  320  340  360  380  400  420  m/z |
| **9** | Confertin B |  | 184.0510  212.0472  240.0409  268.0359  296.0322  311.0544  329.0654  357.0959  0  1000  2000  3000  4000  5000  6000  Intens.  150  200  250  300  350  400  m/z |
| **10** | Atripliside B |  | 153.0187  263.0534  303.0879  345.0984  395.1100  465.1392  0  250  500  750  1000  1250  Intens.  100  200  300  400  500  600  m/z |
| **11** | Lawsonaringenin |  | 219.0777  270.0879  291.1000  0  50  100  150  200  250  Intens.  220  240  260  280  300  320  340  m/z |
| **12** | Erythrivarone C |  | 220.9332  292.0702  349.1054  385.1384  403.1536  421.1652  0  500  1000  1500  2000  Intens.  250  300  350  400  450  500  550  m/z |
| **13** | 7-Hydroxy-flavone |  | 163.0550  239.0704  0  2000  4000  6000  Intens.  100  200  300  400  500  600  m/z |
| **14** | 7-*O*-Gluco-luteolin |  | 229.0491  303.0503  0  200  400  600  Intens.  200  300  400  500  600  700  800  m/z |
| **15** | Rutin |  | 303.0500  0  500  1000  1500  2000  2500  Intens.  200  300  400  500  600  700  m/z |
| **16** | Kaempferol |  | 257.0444  287.0550  0  250  500  750  1000  1250  Intens.  175  200  225  250  275  300  325  350  375  400  m/z |
| **17** | Baicalin |  | 153.0177  215.0695  243.0664  271.0602  0  1000  2000  3000  Intens.  100  125  150  175  200  225  250  275  300  325  m/z |
| **18** | Silymarin |  | 221.0427  343.0791  0  50  100  150  Intens.  100  150  200  250  300  350  400  450  500  m/z |
| **19** | Atalantaflavone |  | 312.3264  374.3630  0  1000  2000  3000  Intens.  50  100  150  200  250  300  350  400  450  500  550  m/z |
| **20** | Catechin hydrate |  | 182.9012  309.0946  0  200  400  600  800  1000  Intens.  100  150  200  250  300  350  400  450  m/z |
| **21** | Lawsochrysinin |  | 255.0650  323.1277  0.0  0.5  1.0  1.5  2.0  2.5  4  x10  Intens.  180  200  220  240  260  280  300  320  340  360  m/z |
| **22** | Lawsochrysin |  |  |
| **23** | 6,7,4'-Trihydroxy-3'-methoxy-isoflavone |  | 168.0026  268.0421  301.0721  0  1000  2000  3000  Intens.  50  100  150  200  250  300  m/z |
| **24** | Kaempferol-4’-*O*-alpha-L-rhamnopyranoside |  | 287.0557  0  250  500  750  1000  1250  Intens.  100  150  200  250  300  350  400  450  m/z |
| **25** | 3’,4’-Dimethoxy-flavones |  | 165.0703  222.0674  239.0708  267.0655  283.0969  0.0  0.5  1.0  1.5  4  x10  Intens.  140  160  180  200  220  240  260  280  300  320  m/z |
| **27** | 5-Methyl-flavonone |  | 178.0779  237.0911  0  1  2  3  4  5  4  x10  Intens.  50  100  150  200  250  300  m/z |
| **28** | 8-(3''-Methylbut-2''-enyl)-7,3',4'-trihydroxy-flavanone |  | 153.0172  221.0802  273.0758  303.3058  341.1378  0  500  1000  1500  2000  2500  Intens.  150  200  250  300  350  400  m/z |
| **29** | Kaempferol 3-*O*-rutinoside |  | 287.0557  449.1089  593.2341  0  500  1000  1500  2000  2500  Intens.  100  200  300  400  500  m/z |
| **30** | Abutilin |  | 258.0523  301.0708  0.0  0.5  1.0  1.5  4  x10  Intens.  100  150  200  250  300  350  400  450  500  550  m/z |
| **31** | 3,8.13,14-Tetra-hydroxy-flavanone |  | 204.9811  257.0427  0  50  100  150  Intens.  50  75  100  125  150  175  200  225  250  275  m/z |
| **32** | Salvigenin |  | 139.0538  165.0697  195.0444  223.0750  254.0569  279.0651  297.0762  330.1385  NP 07 (100T)-MSMS \_RC1\_01\_4905.d: +MS2(329.1019), 25.0-62.5eV, 8.2min #5423  0  1000  2000  3000  Intens.  100  150  200  250  300  350  m/z |
| **33** | 5,7-Dihydroxy-4'-methoxy-isoflavone |  | 213.0552  225.0529  253.0494  270.0554  285.0741  NP 14 100T MSMS\_GB6\_01\_6530.d: +MS2(285.0750), 25.0-62.5eV, 6.7min #4475  0  100  200  300  400  Intens.  140  160  180  200  220  240  260  280  300  320  m/z |
| **34** | Apigenin-glycoside |  |  |
| **35** | Hispidone |  | 167.0337  193.0505  207.0654  NP 08 (100T)-MSMS \_RC3\_01\_4912.d: +MS2(347.1123), 25.0-62.5eV, 7.9min #5180  0  500  1000  1500  Intens.  160  180  200  220  240  260  280  300  320  340  m/z |
| **36** | 2-(4-Hydroxyphenyl)-3,5-dihydroxy-7-rhamnosyl-4*H*-1-benzopyran-4-one |  | 153.0182  287.0545  NP 13 100T MSMS\_GB5\_01\_6525.d: +MS2(433.1127), 25.0-62.5eV, 7.1min #4776  0  500  1000  1500  Intens.  100  150  200  250  300  350  400  450  m/z |
| **37** | 8-Methoxy-6,7-methylene-dioxycoumarano-chromone |  | 160.0148  255.0650  311.0554  NP 07 (100T)-MSMS \_RC1\_01\_4905.d: +MS2(311.0550), 25.0-62.5eV, 9.0min #5952  0  2000  4000  6000  8000  Intens.  100  150  200  250  300  350  m/z |
| **38** | 2-phenyl-4*H*-naphtho[1,2-b]pyran-4-one |  |  |
| **39** | (3*R*, 4*R*)-3-(4-Hydroxy-2-methoxyphenyl)-3,4-dihydro-2*H*-chromene-4,7-diol |  | 214.9159  243.0986  NP 06 (100T)-MSMS \_RB6\_01\_4900.d: +MS2(289.1046), 25.0-62.5eV, 8.6min #5658  0  200  400  600  Intens.  0  50  100  150  200  250  m/z |
| **40** | (3*S*,6*S*)-3,4,5-Trihydroxy-6-{[5-hydroxy-2-(4-hydroxyphenyl)-4-oxo-4*H*-chromen-7-yl]oxy}tetrahydro-2*H*-pyran-2-yl)methyl (*E*)-3-(3,4-dihydroxyphenyl)-2-propenoate |  | 147.0439  287.0546  NP 22 100T MSMS\_GD6\_01\_6570.d: +MS2(595.1444), 25.0-62.5eV, 7.0min #4655  0  1000  2000  3000  4000  5000  6000  Intens.  100  150  200  250  300  350  400  450  500  550  m/z |