Table S1 Information of target compounds

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| --- | --- | --- | --- | --- | --- |
|  | Annotation | Formula | MS (m/z) | MS2 (m/z) | References |
| Anthocyanins | Peonidin-3,5-di-*O*-glucoside | C28H33O16 | 625.1 | 463, 301 | [8-9] |
|  | Peonidin-3-*O*-glucoside | C22H23O11 | 463.1 | 301, 285 |
|  | Petunidin-3-*O*-glucoside | C22H23O12 | 479.1 | 317 |
|  | Petunidin-3-O-galactose | C22H23O12 | 479.1 | 317 |
|  | Malvidin-3-*O*-glucoside | C23H25O12 | 493.1 | 331,493 |
|  | Malvidin-3,5-di-*O*-glucoside | C29H34O17 | 654.1 | 655,493 |
|  | Pelargonidin | C27H31O15 | 595.1 | 433, 271 |
| Flavonols | Isorhamnetin | C16H12O7 | 316.0 | 229, 153 |
|  | Isorhamnetin-3-*O*-galactoside | C22H22O12 | 478.1 | 153, 85 |
|  | Quercetin-3-*O*-glucuronide | C21H18O13 | 478.0 | 303 |
|  | Quercetin | C15H10O7 | 302.0 | 229, 153 |
|  | Quercetin-3-*O*-rhamnoside | C21H20O11 | 448.1 | 129, 85 |
|  | Diquercetin | C15H12O7 | 304.0 | 231,123 |
| Favan-3-ols | Epicatechin | C15H14O6 | 290.0 | 291, 193 |
|  | Catechin | C15H14O6 | 290.0 | 291, 193 |
|  | Epigallocatechin | C15H14O7 | 306.0 | 231, 130 |
|  | Procyanidin B1 | C30H26O12 | 579.1 | 425, 289 |
|  | Procyanidin B2 | C30H26O12 | 579.1 | 425, 289 |
| Phenolic acids | Gallic acid | C7H6O5 | 170.0 | 125, 107 |
|  | Benzoic acid | C7H6O2 | 122.0 | 95, 77 |
|  | Ferulic acid | C10H10O4 | 194.0 | 145, 89 |
|  | *p*-Coumaric acid | C9H8O3 | 164.0 | 119, 91 |
|  | Syringic acid | C9H10O5 | 198.0 | 140, 77 |
|  | Caffeic acid  | C9H8O4 | 181.0 |  |
| Stilbenes | Resveratrol | C14H12O3 | 229.0 | 229 |
|  | Piceid | C19H32O8 | 389.2 | 229 |  |