|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| compounds | Mobile phase A | Mobile phase B | Wavelength of detection(nm) | Retention time(min) |
| saikosaponin D | acetonitrile | 0.2% phosphate acid | 208 | 12.260 |
| catechin | acetonitrile | 0.17% acetic acid | 278 | 13.413 |
| paeoniflorin | acetonitrile | 0.1% phosphate acid | 274  | 14.350 |
| hesperidin | acetonitrile | 0.1% phosphate acid | 274 | 20.110 |
| kaempferol | methanol | 0.2% phosphate acid | 360 | 11.243 |
| isorhamnetin | methanol | 0.2% phosphate acid | 360 | 12.187 |
| keampferol-3-O-rutinoside | methanol | 0.5% phosphate acid | 360 | 3.693 |

**Supplementary data 2(MS analysis parameters of oleanolic acid and ursolic acid)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Compound | Parent ion(m/z) | Daughter ion(m/z) | Ionization mode | Collision energy(eV) |
| oleanolic acid | 455.3 | 455.3\*/407.3 | ESI- | 46 |
| ursolic acid | 455.3 | 455.3\* | ESI- | 46 |

Note: \* is quantitative ion