**Table S3.** Stability of the three analytes in rat plasma (n=5).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Compounds | Nominal Conc. (ng/mL) | Short-term stability(25℃ for 12 h) | Long-term stability(-80℃ for 15 d) | Free-thaw stability(3 free-thaw cycles) | Post-preparation stability(4℃ for 24 h) |
| Measured Conc. (ng/mL) | RSD (%) | Measured Conc. (ng/mL) | RSD (%) | Measured Conc. (ng/mL) | RSD (%) | Measured Conc. (ng/mL) | RSD (%) |
| Quercetin (Qr) | 65.6 | 60.8±3.5 | 5.7 | 60.0±4.7 | 7.8 | 65.3±6.9 | 10.5 | 61.0±4.5 | 7.4 |
| 525.0 | 474.0±37.4 | 7.9 | 500.7±36.0 | 7.2 | 511.9±40.6 | 7.9 | 526.3±60.5 | 11.5 |
| 8400.0 | 7949.4±241.7 | 3.0 | 7982.9±795.7 | 10.0 | 8631.3±801.3 | 9.3 | 7642.7±675.6 | 8.8 |
| Isoquercitrin (IQ) | 48.8  | 51.3±1.6 | 3.0 | 43.5±2.7 | 6.3 | 50.4±1.8 | 3.6 | 45.3±1.4 | 3.1 |
| 244.0  | 229.0±14.0 | 6.1 | 227.0±9.1 | 4.0 | 242.5±20.7 | 8.5 | 255.6±16.0 | 6.2 |
| 976.0  | 902.7±36.8 | 4.1 | 947.8±75.3 | 8.0 | 1029.0±62.9 | 6.1 | 937.6±55.4 | 5.9 |
| Quercetin-3-O-β-D-glucuronide (QG) | 100.0  | 89.3±6.5 | 7.2 | 98.6±10.2 | 10.3 | 98.4±7.0 | 7.1 | 97.2±6.0 | 6.2 |
| 1000.0  | 943.2±64.9 | 6.9 | 941.5±102.3 | 10.9 | 954.9±93.5 | 9.8 | 910.7±68.0 | 7.5 |
| 10000.0  | 9334.6±320.2 | 3.4 | 9985.0±971.4 | 9.7 | 9353.2±620.8 | 6.6 | 9409.6±569.5 | 6.1 |