

Fig. S1 The HPLC chromatograms of mixed standard solution, Ephedra Herb sample solution, K tablet sample solution, MZP tablet sample solution and XQZK oral liquid sample solution under the optimized chromatographic conditions. A Pinnacle II Cyano column (5 µm, 150×4.6mm, ResTEK, Bellefonte, USA) was used; the detection wavelength was set at 208 nm; mobile phase of ACN-NH4Ac ( pH 5.0; 0.195 M) (95:5, *v/v*); flow rate of 1.5 mL·min−1; column temperature was set at 30 ◦C. The mixed standard solution contained 24.91 μg·mL−1 of ME, 50.09 μg·mL−1 of E, and 25.55 μg·mL−1 of PE.

Table S1 The resolution and PPM of ME, E and PE on the chromatograms under the optimized chromatographic conditions

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| Sample | Resolution | PPM |
| Mixing Standard | ME | 2.85 | 997 |
| E | 2.15 | 999 |
| PE | 2.88 | 983 |
| Ephedra Herb | ME | 2.75 | 978 |
| E | 2.25 | 1000 |
| PE | 3.71 | 993 |
| K tablet | ME | 2.87 | 998 |
| E | 2.21 | 999 |
| PE | 3.65 | 986 |
| MZP tablet | ME | 2.89 | 998 |
| E | 2.22 | 999 |
| PE | 3.55 | 997 |
| XQZK oral liquid | ME | 2.39 | 980 |
| E | 2.03 | 998 |
| PE | 5.07 | 992 |