Supplemental information B

Characterization of the herb-derived components in rats following oral administration of *Carthamus tinctorius* extract by extracting diagnostic fragment ions (DFIs) in the MS^n chromatograms

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Fig. S1A The characteristic fragmentation pathways of HSYA.
Fig. S1B The characteristic fragmentation pathways of 6-Hydroxykaempferol-3-O-rutinoside.
Fig. S1C The characteristic fragmentation pathways of Cathamidin-7-O-glucoside.
Fig. S2 The total ion current chromatogram (TIC) of ECT.
Fig. S3 The extracted ion chromatograms of blank samples and biological samples in rats after oral administration of HSYA.
Urine of blank

Urine of HSYA

Fig. S3 (continued)
Fig. S4 The extracted ion chromatograms of blank samples and biological samples in rats after oral administration of kaempferol-3-O-rutinoside.
Urine of kaempferol-3-O-rutinoside

Fig. S4 (continued)
Plasma of blank

Plasma of 6-hydroxykaempferol-3-O-rutinoside

**Fig. S5** The extracted ion chromatograms of blank samples and biological samples in rats after oral administration of 6-hydroxykaempferol-3-O-rutinoside.
Urine of 6-hydroxykaempferol-3-O-rutinoside

Fig. S5 (continued)
Fig. S6 The MS² E(DFI)Cs of blank samples and biological samples in rats after oral administration of ECT.
MS³: Urine of blank

MS³: Urine of ECT

Fig. S6 (continued)
Fig. S6 (continued)
Fig. S6 (continued)
**MS\textsuperscript{2}: Plasma of blank**

**MS\textsuperscript{2}: Plasma of ECT**

Fig. S6 (continued)
**Fig. S6** (continued)