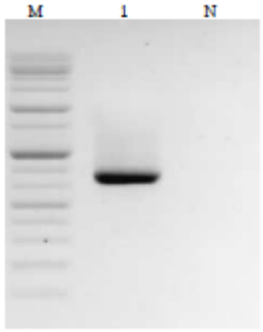



**a)** **b)**

**Supplementary Figure S1. a) Test article and b) PCR amplification of test article by ITS DNA analysis.** M: 1Kb(+), 1: test article, N:negative control.

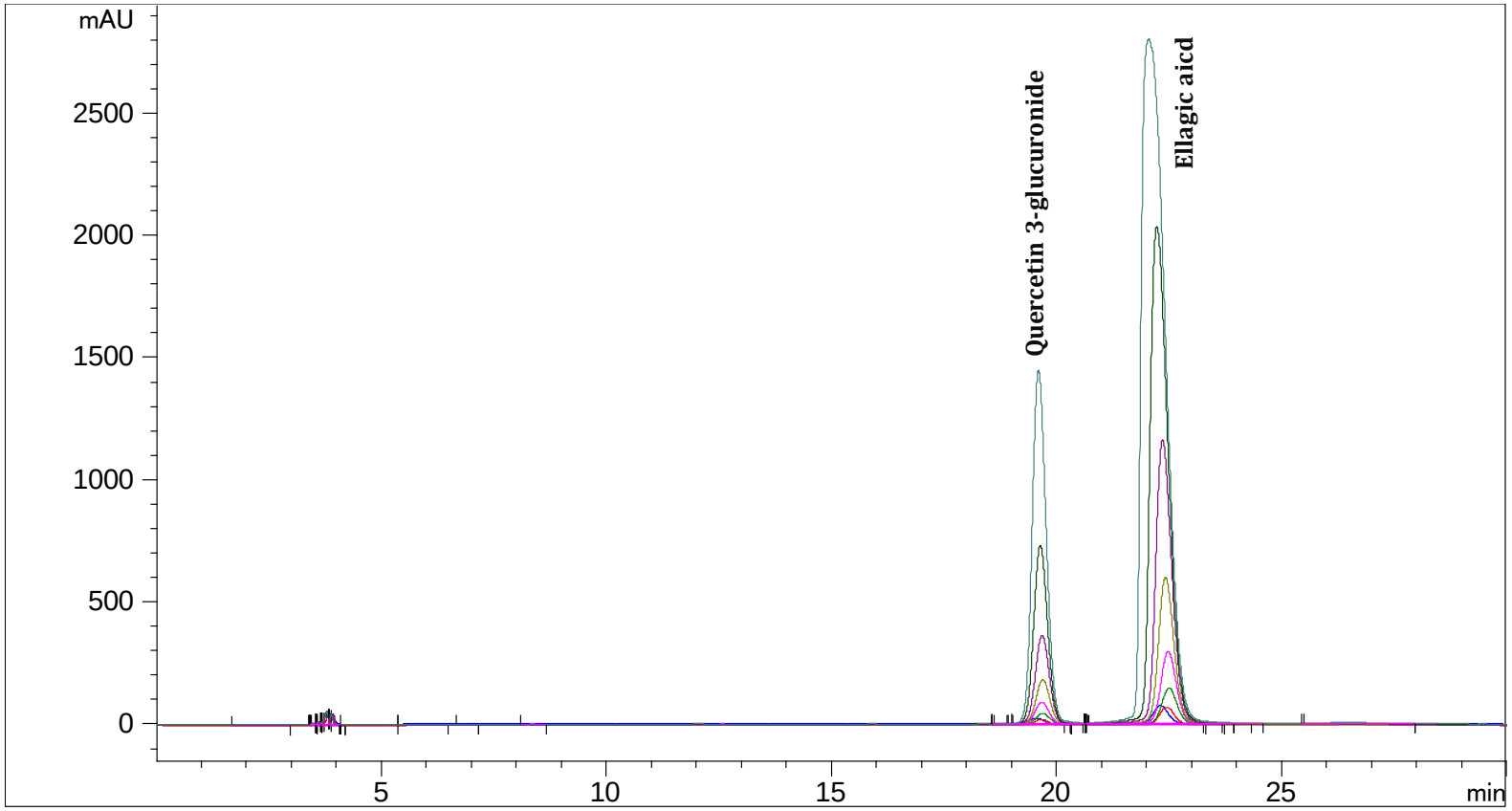
**Supplementary Table S1. Putative identification of four major secondary metabolites in OBS-E using UHPLC-MS.**

| RT (min) | *m/z* | Ionized form | Calculated formula | MS/MS (*m/z*) | Δppm | Identification |
|---|---|---|---|---|---|---|
| 1.95 | 169.0000 | ($[M-H]^-$) | C7H5O5 | 124 | -1.594 | Gallic acid |
| 6.68 | 301.0833 | ($[M-H]^-$) | C14H5O8 | 184,200,229,256,284 | -1.990 | Ellagic acid |
| 6.94 | 479.0788 | ($[M+H]^+$) | C21H19O13 | 303 | -1.694 | Quercetin 3-glucuronide |
| 7.78 | 463.0841 | ($[M+H]^+$) | C21H19O12 | 287 | -1.656 | Luteolin 7-glucuronide |

**Supplementary Table S2. Genetic identification of test article by ITS DNA analysis**

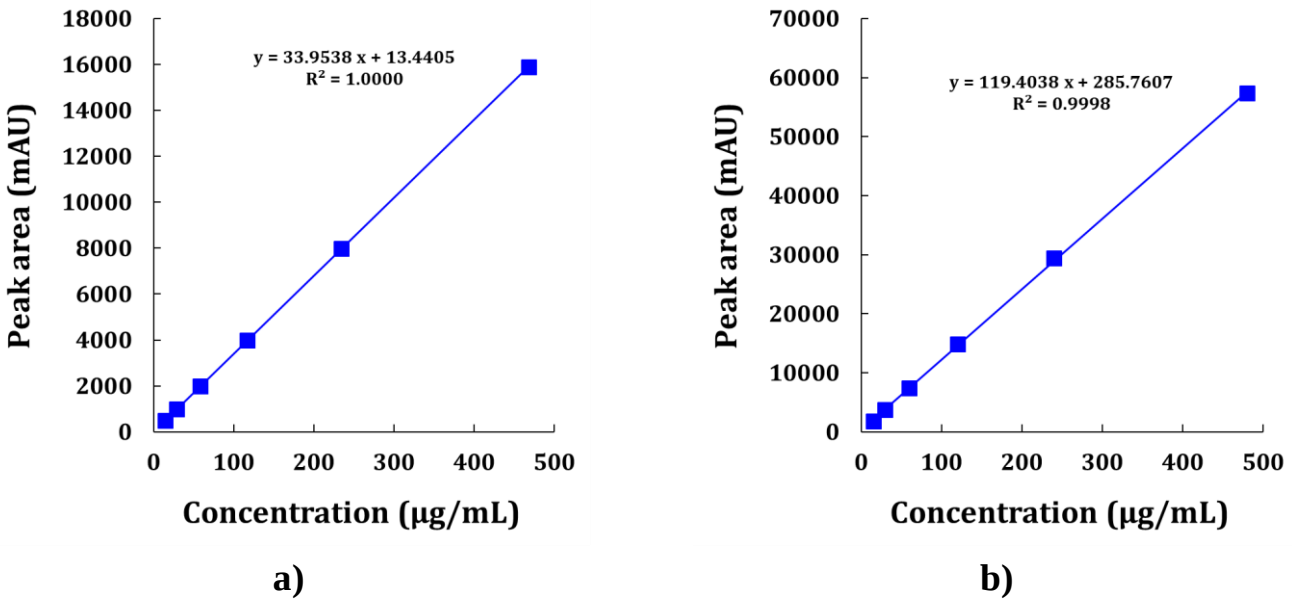
| Sample | Gene bank No. (NCBI) | Identification | Similarity |
|---|---|---|---|
| Evenig primrose | MT610948.1 | *Oenothera biennis* | 704/704 (100%) |

# Supplementary results




**Supplementary Figure S2. Overlaid chromatogram of standard mixture comprising quercetin-3-O-glucuronide and ellagic acid at various concentrations.** Quercetin-3-O-glucuronide: 14.625, 29.25, 58.5, 117, 234, and 468 µg/mL; Ellagic acid: 15, 30, 60, 120, 240, and 480 µg/mL.

# Supplementary results




**Supplementary Figure S3. Calibration curve of a) quercetin-3-O-glucuronide and b) ellagic acid.** Quercetin-3-O-glucuronide: 14.625, 29.25, 58.5, 117, 234, and 468 µg/mL; Ellagic acid: 15, 30, 60, 120, 240, and 480 µg/mL.

# Supplementary results