

Article

Hogweed Seed Oil: Physico-Chemical Characterization, LC-MS Profile, and Neuroprotective Activity of *Heracleum dissectum* Nanosuspension

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Figure S1. Overlapped FTIR spectra of *H. dissectum* seed oil (black) and impertorin (red), octyl acetate (green), and petroselinic acid (blue).

Table S1. Reference standards used for the qualitative and quantitative analysis by HPLC-DAD-ESI-tQ-MS assays.

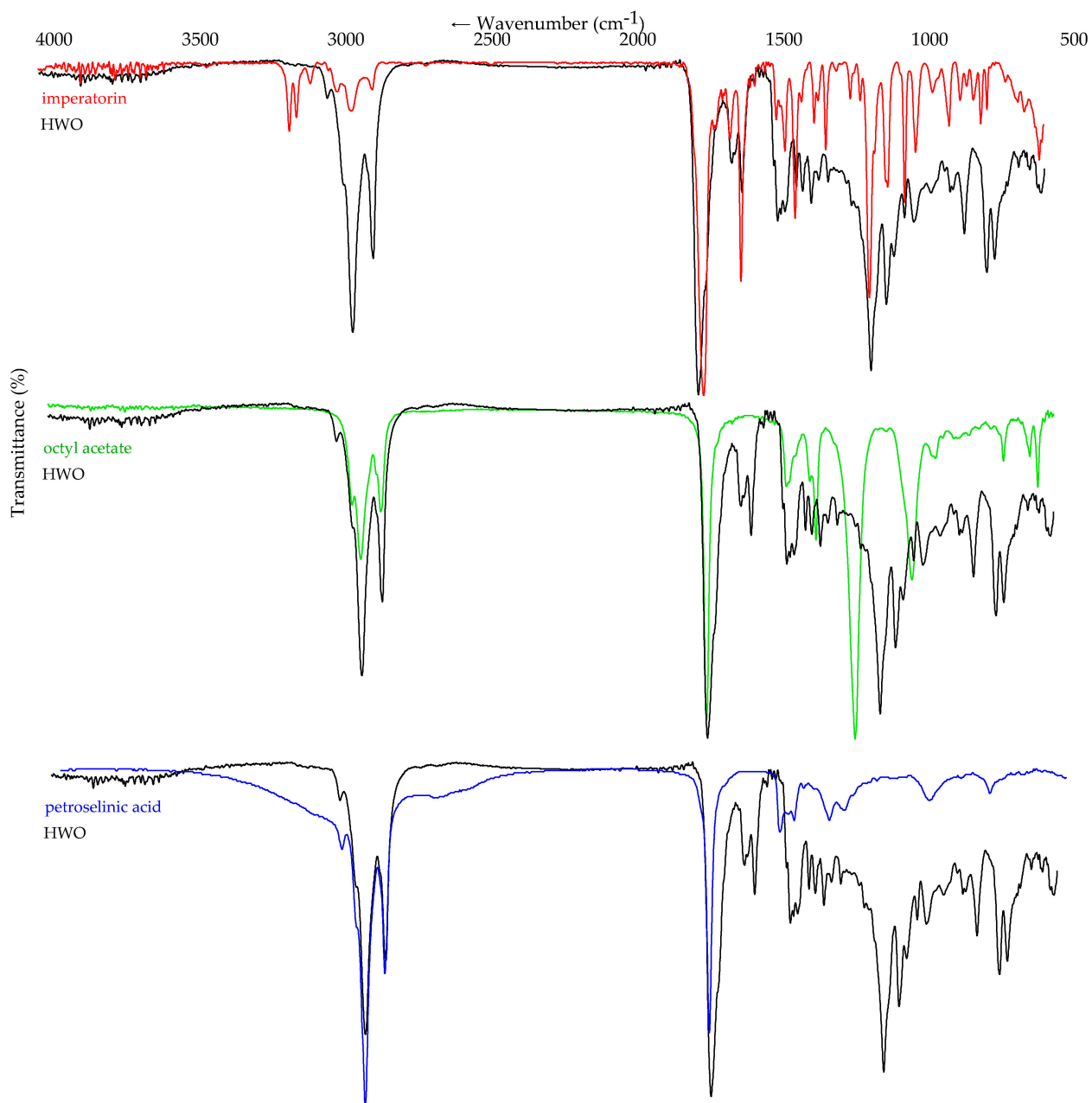


Figure S1. Overlapped FTIR spectra of *H. dissectum* seed oil (black) and imperatorin (red), octyl acetate (green), and petroselinic acid (blue).

Table S1. Reference standards used for the qualitative and quantitative analysis by HPLC-DAD-ESI-tQ-MS assays.

No ^a	Compound	Standard ^a	Manufacturer (Cat. no) ^b	Purity, (≥) %
1	Isofraxetin	Fraxetin	Selleck (S9503)	99.85
2	Esculetin	Esculetin	Sigma (PHL80449)	95.00
3	Umbelliferone	Umbelliferone	Sigma (H24003)	99.00
4	Scopoletin	Scopoletin	Sigma (S2500)	99.00
5	Fraxetin	Fraxetin	Selleck (S9503)	99.85
6	Heraclenol	Heraclenol	Sigma (SMB00125)	95.00
7	Oxypeucedanin hydrate	Oxypeucedanin hydrate	MCE (HY-N2254)	99.94
8	Byakangelicin	Byakangelicin	AOBIOUS (APB0102)	98.00
9	Coumarin	Coumarin	Sigma (C4261)	99.00
10	Herniarin	Herniarin	MCE (HY-N1366)	99.92
11	Psoralene	Psoralene	Sigma (P8399)	99.00
12	Angelicin	Angelicin	MCE (HY-N0763)	99.86
13	Xanthotoxin	Xanthotoxin	Sigma (56448)	98.00
14	Bergapten	Bergapten	Sigma (69664)	99.00
15	Heraclenin	Heraclenin	BioCrick (BCN5187)	98.00
16	Pimpinellin	Pimpinellin	MCE (HY-N0438)	99.27
17	Byakangelicol	Byakangelicol	BioCrick (BCN5015)	98.00
18	Pranferol	Pranferol	BenchChem (B192152)	98.00
19	Alloimperatorin	Alloimperatorin	BioCrick (BCC8116)	98.00
20	Isooxypeucedanin	Isooxypeucedanin	AbMole (M18642)	98.00
21	Heracol	Byakangelicin	AOBIOUS (APB0102)	98.00
22	Oxypeucedanin	Oxypeucedanin	Sigma (PHL89876)	98.00
23	Oxypeucedanin isomer	Oxypeucedanin	Sigma (PHL89876)	98.00
24	Imperatorin	Imperatorin	MCE (HY-N0285)	98.00
25	Phellopterin	Phellopterin	BioCrick (BCN2637)	98.00
26	Isoimperatorin	Isoimperatorin	MCE (HY-N0286)	98.93
27	Cnidilin (isophellopterin)	Cnidilin (isophellopterin)	AOBIOUS (APB0656)	98.00
28	Farnesiferol C	Farnesiferol C	Sigma (SMB01056)	90.00
29	Cnidicin	Cnidicin	Sigma (50014)	95.00
30	Auraptene isomer	Auraptene	Sigma (A9861)	98.00
31	Bergamottin isomer	Bergamottin	Sigma (PHL89868)	95.00
32	8-Geranyloxypsoralen	8-Geranyloxypsoralen	Sigma (CDS010431)	95.00
33	Auraptene	Auraptene	Sigma (A9861)	98.00
34	Bergamottin	Bergamottin	Sigma (PHL89868)	95.00
35	Ostruthin	Ostruthin	Sigma (SMB00113)	95.00
36	5-Geranyl-7-methoxycoumarin	5-Geranyl-7-methoxycoumarin	Sigma (52006)	95.00
38	5-Geranyl-7-methoxycoumarin isomer	5-Geranyl-7-methoxycoumarin	Sigma (52006)	95.00

^a Standards were used in qualitative (^A) or/and quantitative analysis (^B). ^b Manufacturers list: AbMole—AbMole BioScience (Houston, TX, USA); AOBIOUS—AOBIOUS Inc. (Gloucester, MA, USA); BenchChem—BenchChem (Austin, TX, USA); BioCrick—BioCrick (Chengdu, Sichuan, PRC); MCE—MCE Med Chem Express (Monmouth, NJ, USA); Sigma—Sigma-Aldrich (St. Louis, MO, USA); Selleck—Selleck Chemicals (Houston, TX, USA).