

Supplementary Materials (S1)

Article

Microwave-assisted- vs conventional isolation of glucosinolate degradation products from *Lunaria annua* L. and their cytotoxic activity**Ivica Blažević ^{1,*}, Azra Đulović ¹, Vedrana Čikeš Čulić ², Marijana Popović ¹, Xavier Guillot ³, Franko Burčul ⁴ and Patrick Rollin ⁵**

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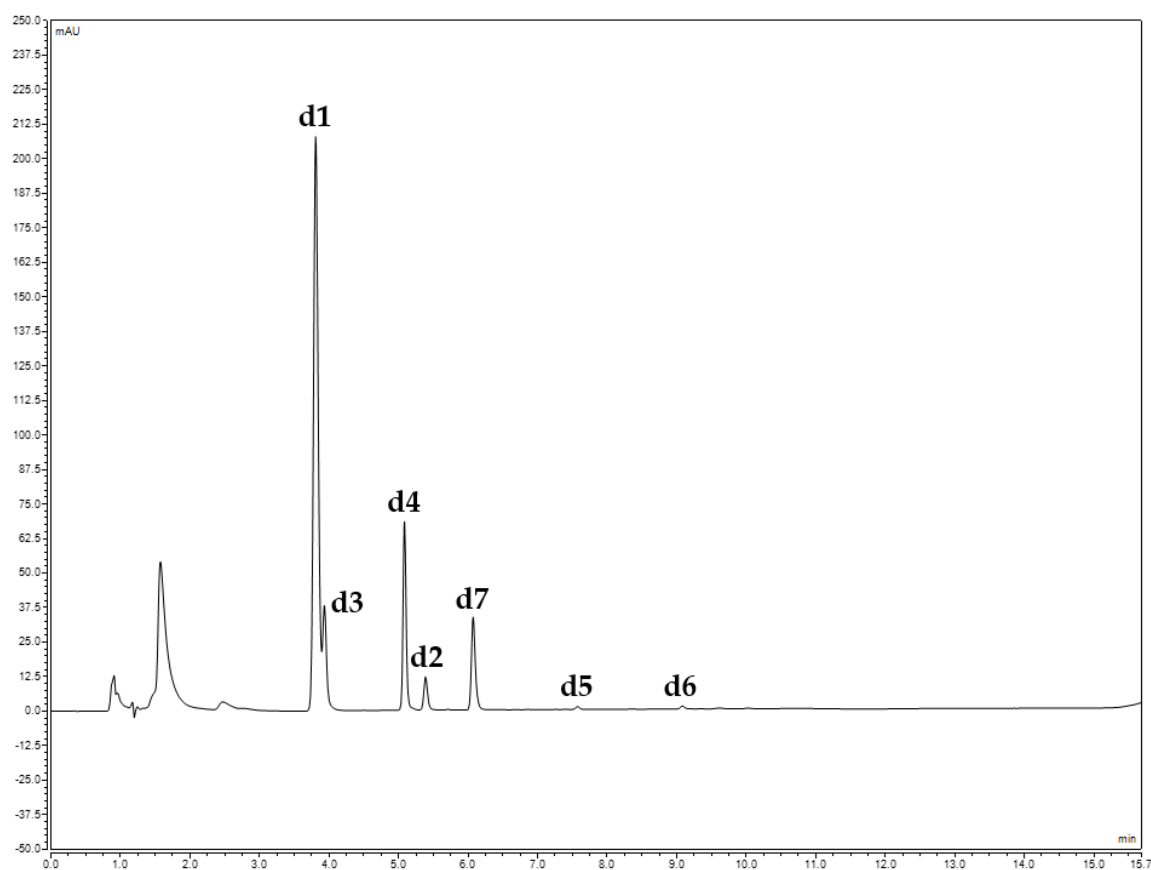
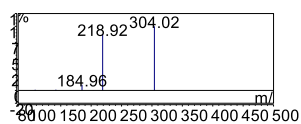
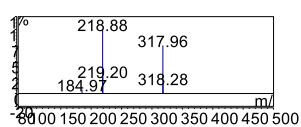


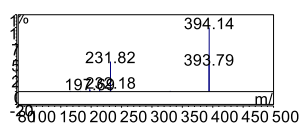
Figure S1. HPLC chromatogram of the desulfoglucosinolates of *L. annua* seeds. **d1** - desulfoglucoputranjivin, **d2** - desulfoglucocochlearin, **d3** - desulfoglucosylsin, **d4** - desulfoglucosylsin, **d5** - desulfoglucoberberoin, **d6** - desulfoglucosylsin, **d7** - desulfoglucotropaeolin.



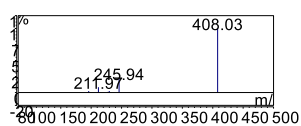
d1



d2

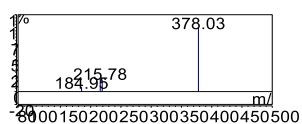


d3

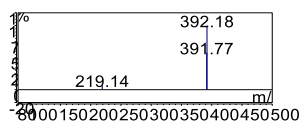


d4

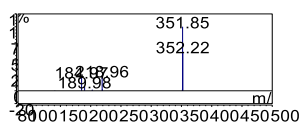
Figure S2. *Continues*



d5



d6



d7

Figure S2. Fragments of sodium adducts of desulfated glucosinolates from *L. annua* observed in MS² (collision energy 15V) after HPLC separation. **d1–d7** corresponds to desulfoglucosinolates in Figure S1.

Table S1. Calculated IC₅₀ values (µg/mL) for volatiles obtained by HD, EXT and MHG from the seeds of *Lunaria annua* L. against human lung cancer cell A549 and breast cancer cell MDA-MB-231 lines after the 4, 12, 48 and 72h.

Cell line	HD				EXT				MHG			
	4h	12h	48h	72h	4h	12h	48h	72h	4h	12h	48h	72h
A549	>100.0	> 00.0	>100.0	>100.0	>100.0	44.53	33.20	18.79	>100.0	67.54	44.59	33.46
MDA-MB-231	>100.0	>100.0	67.44	>100.0	>100.0	37.10	6.00	7.10	>100.0	46.35	11.8	16.76