

# Supporting Information

## Melodamide A from *Melodorum fruticosum* – Quantification using HPLC-DAD and One-Step-Isolation by Centrifugal Partition Chromatography

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### **List of contents:**

Table S1. Partition coefficients ( $K$ ) of compounds **2-14** in two-phase solvent systems.

**Table S1.** Partition coefficients ( $K$ ) of compounds **2-14** in two-phase solvent systems.

Solvent System	Ratio (v/v)	Partition Coefficient ( $K$ ) <sup>a)</sup>										
		2	3	4	5/6/7	8	9	10	11	12/13	14	
<i>n</i> -hex/EtOAc/MeOH/water	9:1:9:1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.03	0.00
<i>n</i> -hex/EtOAc/MeOH/water	8:2:8:2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.06	0.00
<i>n</i> -hex/EtOAc/MeOH/water	7:3:7:3	0.00	0.01	0.02	0.02	0.01	0.00	0.00	0.14	0.13	0.25	0.24
<i>n</i> -hex/EtOAc/MeOH/water	7:3:6:4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.43	0.80	1.33
<i>n</i> -hex/EtOAc/MeOH/water	6:4:6:4	0.00	0.03	0.05	0.07	0.04	0.00	0.00	0.43	0.64	1.04	1.40
<i>n</i> -hex/EtOAc/MeOH/water	7:3:5:5	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.73	1.53	1.90	6.50
<i>n</i> -hex/EtOAc/MeOH/water	5:5:5:5	0.05	0.15	0.28	0.33	0.23	0.39	1.61	4.15	6.91	N.D. <sup>b)</sup>	
<i>n</i> -hex/EtOAc/MeOH/water	3:7:5:5	0.32	0.56	0.91	1.02	0.98	1.26	2.93	7.88	13.70	N.D.	
<i>n</i> -hex/EtOAc/MeOH/water	4:6:4:6	0.33	0.69	1.32	1.54	1.37	2.67	5.43	14.07	15.23	26.15	
<i>n</i> -hex/EtOAc/MeOH/water	3:7:4:6	0.74	N.D.	2.57	2.88	3.16	4.56	12.28	N.D.	N.D.	N.D.	
<i>n</i> -hex/EtOAc/MeOH/water	4:10:4:10	2.38	3.61	8.62	9.38	14.52	20.22	34.13	79.79	94.41	N.D.	
<i>n</i> -hex/EtOAc/MeOH/water	2:8:2:8	8.10	N.D.	2.80	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
<i>n</i> -hex/EtOAc/MeOH/water	1:9:1:9	N.D.	N.D.	N.D.	116.92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
<i>n</i> -hex/EtOAc/MeOH/water	0:10:0:10	N.D.	N.D.	N.D.	155.00	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
EtOAc/DME/water	2:1:1	5.93	9.33	21.41	17.61	17.68	N.D. <sup>b)</sup>	N.D.	N.D.	N.D.	N.D.	
MTBE/DME/water	1:2:1	1.01	17.53	23.31	1.50	4.23	1.95	3.82	26.45	N.D.	N.D.	
MTBE/DME/water	2:1:2	3.12	2.57	8.00	10.32	13.43	N.D.	33.14	N.D.	N.D.	N.D.	
MTBE/DME/water	2:2:1	0.97	1.45	2.35	2.65	10.40	4.86	7.18	35.84	N.D.	N.D.	
MTBE/DME/water	2:2:2	1.49	2.11	4.20	4.63	14.65	11.14	14.98	N.D.	N.D.	N.D.	
<i>n</i> -hep/DCM/ACN	10:3:7	0.00	0.02	0.01	0.02	0.01	0.00	0.04	0.02	0.02	0.00	

Solvent System	Ratio (v/v)	Partition Coefficient ( $K$ ) <sup>a)</sup>									
		2	3	4	5/6/7	8	9	10	11	12/13	14
<i>n</i> -hex/EtOAc/MeOH/water /DME	7:3:6:4:2	0.00	0.02	0.03	0.04	0.02	0.00	0.24	0.29	0.50	0.61
MTBE/DME/Ace/water	4:1:1:4	3.18	2.98	7.85	9.10	N.D.	N.D.	24.04	N.D.	N.D.	N.D.
<i>n</i> -hex/ACN	1:1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MTBE/EtOAc/water	2:1:2	N.D.	N.D.	78.30	73.78	93.90	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE/EtOH/water	2:1:2	9.03	9.03	11.19	13.19	25.91	N.D.	18.20	N.D.	N.D.	N.D.
MTBE/MeOH/water	2:1:2	6.55	4.89	9.92	12.54	23.18	N.D.	20.63	N.D.	N.D.	N.D.
MTBE/ <i>n</i> -prop/water	2:1:2	N.D.	48.74	55.30	55.97	87.52	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE/2-prop/water	2:1:2	N.D.	20.96	31.98	29.53	50.18	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE/ <i>n</i> -BuOH/water	2:1:2	N.D.	179.20	260.21	208.63	218.70	N.D.	N.D.	N.D.	N.D.	N.D.

a) Calculation based on the analysis results using the developed HPLC method at 230 nm

b) N.D. not detected in the lower phase