

**Table S7.** Phytochemical composition, identification and major groups of chemical components (%) of essential oil (EO) of *Clinopodium dalmaticum* (Cd) including *Micromeria bulgarica* (CdB), and *C. frivaldszkyanum* (Cf).

			Sample and yield						
			Cd1	Cd2	CdB1	CdB2	CdB3	Cf1	Cf2
			1.17	0.9	0.9	1.15	0.87	0.35	0.44
Component	RI <sup>a</sup>	RI <sup>b</sup>	EO±SD	EO±SD	EO±SD	EO±SD	EO±SD	EO±SD	EO±SD
<b>MH</b>			<b>7.40</b>	<b>6.95</b>	<b>12.88</b>	<b>11.20</b>	<b>25.17</b>	<b>6.52</b>	<b>11.55</b>
α-Thujene	924	1029	0.12±0.01	-	-	-	-	-	-
α-Pinene*	938	1025	-	-	5.52±0.01	1.43±0.01	14.31±0.01	2.43±0.03	2.62±0.01
							1		
Verbenene	960	1121	-	-	-	-	-	-	0.27±0.01
Camphene*	962	1056	0.62±0.01	0.21±0.03	-	0.42±0.03	0.72±0.02	0.72±0.01	0.42±0.03
Sabinene	971	1126	0.41±0.02	0.65±0.03	0.43±0.05	-	0.31±0.02	0.31±0.03	-

\*

Linalool*	1099	1548	-	-	-	0.41±0.02	0.52±0.01	0.56±0.03	0.91±0.01
<i>cis-p</i> -Menth-2-en-1-ol	1118	1600	-	-	-	0.31±0.01	-	-	-
$\beta$ -Thujone	1121	1438	-	-	-	0.32±0.01	-	-	0.31±0.01
$\alpha$ -Campholenal	1129	1496	-	-	-	0.54±0.03	0.11±0.01	-	-
Isopulegol	1145	1551	0.71±0.02	0.73±0.01	-	-	-	-	-
<i>trans</i> -Pinocarveol	1147	1658	0.24±0.01	0.24±0.01	-	0.46±0.01	-	-	0.44±0.01
Menthone	1148	1462		0.43±0.03	-	-	-	12.8±0.01	9.23±0.03
Camphor	1151	1499	-	-	0.85±0.01	3.25±0.01	4.34±0.01	0.33±0.01	-
Pinocarvone	1160	1565	1.14±0.03	0.91±0.01	-	-	-	-	-
Borneol*	1176	1699	2.43±0.02	-	-	-	4.11±0.01	-	-
Terpinen-4-ol	1184	1601	0.26±0.01	2.91±0.03	0.88±0.01	0.73±0.01	1.61±0.05	1.63±0.01	2.79±0.01
$\alpha$ -Terpineol	1186	1686	0.35±0.01	0.32±0.01	0.96±0.07	0.44±0.01	0.53±0.01	0.56±0.01	0.43±0.01

Myrtenol	1197	1782	0.33±0.01	-	-	0.52±0.02	0.41±0.01	0.45±0.01	2.57±0.1
Verbenone	1204	1705	-	-	1.32±0.01	0.31±0.01	2.23±0.01	0.24±0.01	-
<i>trans</i> -Carveol	1215	1815	0.15±0.01	0.54±0.01	-	1.93±0.01	5.21±0.01	1.23±0.01	0.91±0.03
<i>endo</i> -Fenchyl acetate	1218	1465	-	-	-	0.61±0.03	-	-	0.61±0.01
Pulegone	1233	1641	13.35±0.0	25.14±0.0	-	-	-	47.2±0.01	29.52±0.0
			1	3					1
Piperitone	1250	1719	3.15±0.01	0.93±0.01	4.52±0.01	1.11±0.05	0.32±0.01	0.31±0.01	1.12±0.05
Linalyl acetate	1252	1553	-	-	-	-	0.85±0.01	0.81±0.01	-
Bornyl acetate	1285	1570	-	-	-	0.30±0.05	1.22±0.02	1.28±0.03	0.35±0.03
Piperitonene	1340	1882	36.63±0.0	34.73±0.0	-	-	-	-	-
			2	1					
α-Terpenyl acetate	1349	1685	-	-	-	0.22±0.01	0.93±0.01	0.91±0.01	0.25±0.01

Neryl acetate	1358	1692	-	-	-	0.13±0.01	-	-	0.14±0.01
Piperitenone oxide	1366	1941	2.26±0.01	0.31±0.02	-	-	-	-	-
<b>SH</b>			<b>19.51</b>	<b>14.18</b>	<b>41.41</b>	<b>48.98</b>	<b>13.08</b>	<b>10.07</b>	<b>15.9</b>
$\alpha$ -Copaene	1377	1484	0.21±0.01	0.26±0.03	2.52±0.01	0.34±0.01	0.12±0.05	0.15±0.01	0.31±0.01
$\beta$ -Bourbonene	1383	1508	0.32±0.01	-	-	0.91±0.02	0.32±0.01	0.34±0.01	0.93±0.01
$\beta$ -Elemene	1389	1593	-	0.54±0.01	-	-	-	-	-
$\alpha$ -Gurjunene	1407	1520	-	-	-	0.15±0.01	0.93±0.01	0.93±0.03	0.11±0.02
<i>E</i> -Caryophyllene*	1424	1585	8.33±0.01	2.35±0.01	31.74±0.0	42.43±0.0	2.91±0.01	2.91±0.01	6.33±0.01
					1	1			
$\beta$ -Copaene	1429	1584	1.14±0.01	1.51±0.01	0.63±0.01	0.63±0.01	1.15±0.01	1.14±0.06	0.63±0.01
<i>trans</i> - $\alpha$ -Bergamoten e	1433	1580	-	-	-	0.44±0.01	0.22±0.01	0.21±0.01	0.42±0.03
( <i>Z</i> )- $\beta$ -Farnesene	1454	1639	-	-	-	0.42±0.01	0.33±0.01	0.34±0.01	0.40±0.01

$\alpha$ -Humulene	1456	1654	1.21±0.01	1.22±0.03	-	0.13±0.01	-	-	0.12±0.01
<i>al</i> -		1662		-			1.94±0.01		
<i>lo</i> -Aromadendrene*	1465		-		-	1.82±0.01		0.95±0.01	1.82±0.01
$\beta$ -Chamigrene	1477	1735	-	-	0.66±0.01	0.28±0.01	0.34±0.01	-	0.25±0.03
Germacrene D*	1481	1692	3.61±0.01	3.62±0.01	4.71±0.01	0.77±0.01	2.15±0.02	2.15±0.05	1.52±0.01
$\beta$ -Bisabolene	1494	1729	0.93±0.03	0.93±0.01	-	0.43±0.01	0.21±0.01	-	0.43±0.01
Viridiflorene	1496	1697	2.12±0.01	2.12±0.01	-	-	1.10±0.03	-	1.38±0.01
Bicyclogermacrene	1500	1718	-	-	1.15±0.01	0.23±0.05	0.91±0.03	0.95±0.01	1.25±0.01
$\delta$ -Cadinene	1517	1745	1.64±0.02	1.63±0.01	-	-	0.42±0.01	-	-
<b>OS</b>			<b>3.98</b>	<b>4.04</b>	<b>5.28</b>	<b>4.38</b>	<b>17.22</b>	<b>4.12</b>	<b>7.68</b>
Spathulenol*	1577	2101	0.12±0.01	0.13±0.01	2.51±0.01	0.92±0.01	2.42±0.01	2.43±0.01	3.92±0.01
Caryophyllene		1955		1.31±0.01					
oxide*	1581		1.31±0.01		0.52±0.01	1.52±0.01	13.41±0.01	0.42±0.01	2.83±0.01

$\gamma$ -Eudesmol	1632	2135	2.12±0.01	2.12±0.02	0.42±0.01	0.21±0.05	0.33±0.01	0.32±0.01	0.22±0.01
		2208		0.14±0.01			0.41±0.01		
$\alpha$ -Cadinol	1655		0.11±0.03		1.83±0.03	-		0.42±0.03	-
				-					
$\alpha$ -Bisabolol	1688	2116	0.32±0.05	0.34±0.01	-	1.73±0.01	0.52±0.05	0.53±0.01	0.71±0.01
$\alpha$ -Bisabolol oxide	1748	2511	-	-	-	-	0.13±0.01	-	-
<b>PC</b>			<b>0.12</b>	<b>-</b>	<b>25.73</b>	<b>9.13</b>	<b>12.24</b>	<b>2.24</b>	<b>6.07</b>
Thymol*	1290	2198	-	-	25.73±0.01	9.13±0.01	11.53±0.01	1.51±0.01	4.13±0.01
Carvacrol*	1298	2239	0.12±0.02	-	-	-	0.71±0.01	0.73±0.01	1.94±0.01
<b>CC</b>			<b>0.21</b>	<b>0.92</b>	<b>0.72</b>	<b>1.30</b>	<b>1.57</b>	<b>0.90</b>	<b>1.40</b>
1-Octen-3-ol	974	1433	-	-	0.72±0.01	-	0.72±0.01	-	-
3-Octanol acetate	1125	1376	0.21±0.01	-	-	-	0.21±0.02	0.24±0.03	0.44±0.01
Isobutyl hexanoate	1155	1356	-	-	-	0.56±0.01	-	-	0.22±0.01
Isoamylhexanoate	1256	1457	-	-	-	0.53±0.01	0.32±0.01	0.31±0.01	0.51±0.01
$\beta$ -Ionone	1487	1924	-	0.92±0.01	-	0.21±0.01	0.32±0.01	0.35±0.01	0.23±0.01

H			2.12	1.79	1.61	1.59	1.55	0.42	0.67
Eicosane*	2000	2000	0.82±0.01	1.23±0.01	0.22±0.03	0.42±0.01	-	-	-
Heneicosane*	2100	2100	-	-	0.34±0.01	-	0.14±0.01	-	-
Docosane*	2200	2200	-	-	0.63±0.01	0.46±0.01	0.21±0.01	-	0.44±0.01
Tricosane*	2300	2300	0.44±0.01	-	0.42±0.01	0.71±0.01	0.42±0.01	0.42±0.01	0.23±0.01
Tetracosane*	2400	2400	0.45±0.02	0.34±0.01	-	-	-	-	-
Pentacosane*	2500	2500	-	-	-	-	0.21±0.01	-	-
Hexacosane*	2600	2600	0.41±0.01	0.22±0.01	-	-	-	-	-
Heptacosane*	2700	2700	-	-	-	-	0.31±0.01	-	-
Octacosane*	2800	2800	-	-	-	-	0.26±0.02	-	-
<b>Total identified (%)</b>			<b>93.39</b>	<b>95.07</b>	<b>96.91</b>	<b>91.58</b>	<b>93.54</b>	<b>92.93</b>	<b>96.27</b>

Retention indices were determined relative to a series of *n*-alkanes (C<sub>8</sub>–C<sub>40</sub>) on capillary columns VF5-ms (RI<sup>a</sup>) and CP Wax 52 (RI<sup>b</sup>);

identification method: RI comparison of RIs with those listed in a homemade library; reported in the literature [87] and/or authentic samples;

comparison of mass spectra with those in mass spectral libraries NIST02 [88] and Wiley 9; \*, injection reference compounds; SD, standard deviation;

MH, Monoterpene hydrocarbons; OM, Oxygenated monoterpenes; SH, Sesquiterpene hydrocarbons; OS, Oxygenated sesquiterpenes;

PC, Phenolic compounds; CC, Carbonylic compounds; H, Hydrocarbons.