

**Table S5.** Phytochemical composition, identification and major groups of chemical components (%) of essential oil (EO) of *Micromeria kernerii* (Mk).

Sample and yield							
			Mk1	Mk2	Mk3	Mk4	Mk5
			0.73	0.76	0.77	0.75	0.62
Component	RI <sup>a</sup>	RI <sup>b</sup>	EO±SD	EO±SD	EO±SD	EO±SD	EO±SD
<b>MH</b>			<b>32.74</b>	<b>35.69</b>	<b>35.59</b>	<b>37.68</b>	<b>44.73</b>
α-Pinene*	938	1025	12.3±0.03	14.31±0.01	12.62±0.01	15.43±0.01	16.13±0.01
Verbenene	960	1121	2.15±0.01	2.13±0.01	0.26±0.03	2.13±0.01	2.32±0.01
Camphene*	962	1056	0.62±0.03	-	0.25±0.01	-	0.44±0.01
β-Pinene	982	1092	12.10±0.01	10.65±0.01	13.44±0.01	10.65±0.01	13.12±0.01
Myrcene*	992	1173	0.24±0.03	-	-	0.38±0.01	0.24±0.01
β-Phellandrene	1025	1208	5.21±0.07	5.23±0.01	5.11±0.01	5.86±0.01	6.93±0.01
Limonene	1032	1204	0.12±0.03	2.51±0.01	2.35±0.01	3.23±0.01	3.12±0.01
γ-Terpinene	1057	1225	-	0.86±0.01	1.56±0.01	-	2.43±0.02
<b>OM</b>			<b>13.34</b>	<b>12.14</b>	<b>17.21</b>	<b>13.36</b>	<b>22.45</b>
trans-Linalool oxide*	1088	1434	1.13±0.01	-	1.76±0.01	-	0.84±0.01
Linalool*	1099	1548	1.31±0.05	1.32±0.01	1.93±0.01	1.86±0.01	1.33±0.03
α-Campholenal	1129	1496	-	-	0.45±0.01	-	5.25±0.03
trans-Pinocarveol	1147	1658	0.23±0.01	-	0.75±0.01	0.56±0.01	0.22±0.01
Camphor	1151	1499	-	-	-	0.84±0.01	0.58±0.01

Pinocarvone	1160	1565	-	1.18±0.05	-	-	1.94±0.01
Borneol*	1176	1699	2.41±0.01	2.45±0.01	2.26±0.01	2.07±0.01	2.17±0.01
Terpinen-4-ol	1184	1601	0.22±0.03	-	-	-	-
α-Terpineol	1186	1686	0.31±0.01	0.54±0.01	0.44±0.01	0.74±0.01	0.51±0.01
Myrtenol	1197	1782	0.33±0.01	0.56±0.01	3.54±0.01	0.81±0.01	4.25±0.01
Verbenone	1204	1705	3.73±0.02	2.55±0.01	2.61±0.01	2.35±0.01	1.51±0.01
trans-Carveol	1215	1815	0.53±0.01	-	0.21±0.01	-	0.74±0.01
endo-Fenchyl acetate	1218	1465	-	-	0.63±0.01	-	-
Pulegone	1234	1641	-	0.91±0.01	-	0.87±0.01	0.56±0.01
Piperitone	1250	1719	3.14±0.03	2.63±0.01	2.12±0.01	3.26±0.01	2.32±0.01
Piperitenone oxide	1366	1941	-	-	0.51±0.03	-	0.23±0.01
<b>SH</b>			<b>22.64</b>	<b>13.08</b>	<b>16.69</b>	<b>16.25</b>	<b>8.65</b>
α-Copaene	1377	1484	0.23±0.01	0.15±0.01	0.36±0.01	0.75±0.01	0.66±0.01
β-Bourbonene	1383	1508	0.31±0.01	0.35±0.03	0.91±0.01	0.51±0.01	0.47±0.01
β-Elemene	1389	1593	-	-	-	0.41±0.01	0.51±0.01
E-Caryophyllene*	1424	1585	8.31±0.03	4.19±0.01	6.52±0.01	1.52±0.01	1.35±0.01
β-Copaene	1429	1584	1.13±0.01	1.18±0.01	0.67±0.01	0.45±0.05	0.25±0.01
α-Humulene	1456	1654	1.24±0.01	-	1.13±0.01	0.95±0.01	-
allo-Aromadendrene*	1465	1662	4.81±0.01	1.96±0.01	3.31±0.01	3.23±0.01	1.63±0.01
Germacrene D*	1481	1692	1.92±0.01	2.16±0.01	1.77±0.01	6.24±0.01	2.31±0.01
β-Bisabolene	1494	1729	0.96±0.05	0.61±0.01	0.81±0.01	0.64±0.01	0.99±0.01

Viridiflorene	1496	1697	2.12±0.01	1.05±0.01	1.21±0.01	1.01±0.01	0.48±0.01
δ-Cadinene	1517	1745	1.61±0.01	1.43±0.01	-	0.54±0.03	-
<b>OS</b>			<b>21.94</b>	<b>27.41</b>	<b>20.37</b>	<b>20.07</b>	<b>14.77</b>
Spathulenol*	1577	2101	0.11±0.01	2.46±0.01	2.93±0.01	1.71±0.01	1.10±0.01
Caryophyllene oxide*	1581	1955	17.32±0.01	23.46±0.01	14.42±0.01	14.32±0.01	12.81±0.01
γ-Eudesmol	1632	2135	2.12±0.01	0.32±0.01	2.28±0.01	2.83±0.01	0.86±0.03
α-Cadinol	1655	2208	0.12±0.01	0.43±0.01	-	-	-
α-Bisabolol	1688	2116	0.34±0.01	0.31±0.01	0.74±0.01	0.35±0.01	-
α-Bisabolol oxide	1748	2511	1.93±0.01	0.43±0.01	-	0.86±0.01	-
<b>PC</b>			<b>2.41</b>	<b>0.53</b>	<b>0.39</b>	<b>1.66</b>	<b>-</b>
Thymol*	1290	2198	2.26±0.01	0.53±0.05	-	1.35±0.01	-
Carvacrol*	1298	2239	0.15±0.01	-	0.21±0.01	0.31±0.07	-
Eugenol*	1370	2175	-	-	0.18±0.05		-
<b>CC</b>			<b>0.38</b>	<b>0.75</b>	<b>0.98</b>	<b>1.99</b>	<b>1.43</b>
1-Octen-3-ol	974	1433	0.16±0.01	0.53±0.01	0.32±0.02	1.43±0.01	1.12±0.01
3-Octanol acetate	1125	1376	0.22±0.01	-	0.45±0.01	0.42±0.01	-
Isobutyl hexanoate	1155	-	-	-	0.21±0.03	-	-
β-Ionone	1487	1924	-	0.22±0.01	-	0.14±0.01	0.32±0.01
<b>H</b>			<b>1.61</b>	<b>1.71</b>	<b>1.51</b>	<b>0.97</b>	<b>2.06</b>
Eicosane*	2000	2000	0.23±0.01	-	-	-	0.64±0.01
Docosane*	2200	2200	-	0.72±0.01	0.31±0.05	0.55±0.01	1.42±0.03

Tricosane*	2300	2300	0.42±0.01	0.47±0.01	0.24±0.01	0.42±0.05	-
Tetracosane*	2400	2400	0.44±0.01	-	0.51±0.01	-	-
Pentacosane*	2500	2500	-	-	-	-	-
Hexacosane*	2600	2600	0.52±0.01	0.52±0.01	0.45±0.01	-	-
<b>Total identified (%)</b>			<b>95.06</b>	<b>91.31</b>	<b>92.74</b>	<b>91.98</b>	<b>94.09</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 [ ] 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.