



SUPPLEMENTARY MATERIAL TO
Chemical constituents and insecticidal activities of the essential oil from *Alpinia blepharocalyx* rhizomes against *Lasioderma serricorne*

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J. Serb. Chem. Soc. 80 (2) (2015) 171–178

TABLE S-I. Constituents identified from the essential oil of *Alpinia blepharocalyx* rhizome parts; RI – retention index as determined on a HP-5MS column using the homologous series of *n*-hydrocarbons

Compound	RI	Content, %
β -Terpinene	1069	0.53
1R- α -Pinene	1087	9.81
Camphene	1205	8.05
Sabinene	1228	11.27
Unknown compound	1245	1.00
2-Methylheptenone	1248	0.07
α -Phellandrene	1255	5.00
2,4(8)- <i>p</i> -Menthadiene	1267	0.52
2-Isopropyltoluene	1275	4.50
Sylvestrene	1278	5.61
Eucalyptol	1283	8.86
2,2-Dimethylheptane	1403	0.13
2,5,9-Trimethyldecane	1415	0.09
DL-Malic acid	1426	0.06
8,8-Dimethyl-4-methylene-1-oxaspiro[2.5]oct-5-ene	1455	0.07
Linalool propionate	1460	0.64
<i>n</i> -Butylbenzene	1498	0.48
Camphor	1604	23.13

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TABLE S-I. Continued

Compound	<i>RI</i>	Content, %
Camphene hydrate	1609	0.30
Borneol	1634	1.88
α -Phellandren-8-ol	1641	0.11
($-$)-4-Terpineol	1651	2.54
Xylitol	1667	0.08
Cryptone	1669	0.08
α -Terpineol	1671	2.63
Myrtenal	1677	0.27
($-$)-Myrtenol	1680	0.43
Bicyclo[3.2.2]nona-6,8-dien-3-one	1687	0.19
Fenchyl acetate	1912	1.02
($+$)-Citronellol	1934	0.74
Citral	1951	1.96
Benzylacetone	1953	0.76
3,5-Dimethoxytoluene	1989	0.08
Methyl atropate	2106	0.24
Decyl methyl ketone	2111	0.17
Carvacrylacetate	2115	0.36
α -Cedrene	2146	0.37
Methyl eugenol	2165	0.64
1,2-Vinylidenecyclohexane	2166	0.49
(1 <i>S</i> ,8 <i>a</i> β)-Decahydro-4 <i>a</i> β -methyl-8-methylene-2 <i>a</i> -(1-methyl-ethyl)naphthalen-1 <i>β</i> -ol acetate	2185	0.06
5,7-Diethyl-5,6-decadien-3-yne	2195	0.12
(<i>S</i> ,1 <i>Z</i> ,5 <i>E</i>)-1,5-Dimethyl-8-isopropenyl-1,5-cyclodecadiene	2197	0.30
δ -Cadinene	2723	0.47
3,7-Dimethylnonane	2773	0.10
4,4-Dimethylundecane	2860	0.06
Tetrapropylmethane	2900	0.11
Total		96.38