

Supplementary Information

Lavandula Luisieri and Lavandula Viridis Essential Oils as Upcoming Anti-protozoal Agents: a Key Focus on Leishmaniasis

Table S1. Composition of the essential oil of *Lavandula viridis*.

Constituents	Relative amount %
Tricyclene	0.2
α -Pinene	9.2
Camphene	2.7
Verbenene	0.5
Oct-1-ene-3-one	0.6
Sabinene	0.3
β -Pinene	1.6
Myrcene	0.4
<i>p</i> -Cymene	0.4
1,8-Cineole	29.7
Limonene	1.0
Z- β -Ocimene	0.6
E- β -Ocimene	0.2
γ -Terpinene	0.2
Linalool	9.0
Campholenal	0.3
3-Octanyl acetate	0.4
Camphor	10.4
α -Phellandrene oxide	0.5
<i>trans</i> -Verbenol	0.7
<i>para</i> -Mentha-1,5-dien-8-ol	0.8
Borneol	2.7
Terpinene-4-ol	0.6
Myrtenal	0.4
α -Terpineol	0.9
Verbenone	0.6
Linalyl acetate	0.3
Bornyl acetate	0.3
Geranyl acetate	1.1
Phenyl-2-methylbutirate	0.9
Germacrene D	1.2
β -Selinene	0.9
α -Selinene	1.0
Z- α -Bisabolene	6.3
β -Bisabolene	0.3
Selina-4(15),7(11)-diene	1.5
Selina-3,7(11)-diene	6.6
Germacrene B	0.8
Monoterpene hydrocarbons	17.3
Oxygen containing monoterpenes	58.3
Sesquiterpene hydrocarbons	18.6
Oxygen containing sesquiterpenes	t

Other compounds	1.9
Total identified	96.1

"t" = traces <0,05%.

Table S2. Composition of the essential oil of *Lavandula luisieri* (previously published by Videira, 2015).

Constituents	Relative amount (%)
3,5-dimethylene-1,4,4-trimethylcyclopentene	1.2
α-Pinene	2.3
Camphene	0.1
Verbenene	0.12
1-Octen-3-ol	0.1
Sabinene	0.1
β-Pinene	0.3
δ-3-Carene	0.1
α-Phellandrene	t
p-Cymene	0.2
1,8-Cineole	18.9
Limonene	0.1
3,4,4-Trimethyl-2-cyclohexanone	1.2
cis-Linalool oxide	0.9
trans-Linalool oxide	0.5
Linalool	3.1
2,3,4,5-Tetramethyl-2-cyclopenten-1-one*	0.3
α-Campholenal	0.1
Nopinone	0.1
Camphor	0.8
trans-Pinocarveol	0.3
3,4,5,5-Tetramethyl-1,3-cyclopentadienecarboxaldehyde*	0.7
trans-α-Necrodol*	8.9
Pinocarvone	0.2
Lavandulol	0.5
1,1,2,3-Tetramethyl-4-hydroxymethyl-2-cyclopentene*	2.6
2,3,4,4-Tetramethyl-5-methylene-cyclopent-2-enone*	2.9
p-Cymen-8-ol	0.1
Terpinene-4-ol	0.5
Myrtenal	0.2
α-Terpineol	0.3
Verbenone	0.5
Necrodyl acetate (isomer)*	2.3
trans-α-Necrodyl acetate*	19.5
Lavandulyl acetate	7.2
Lyratyl acetate*	2.5
3,4,5,5-Tetramethylcyclopenta-1,3-dienecarboxylic acid*	0.1
cis-α-Necrodyl acetate*	1.4
Neryl acetate	0.6
Cyclosativene	t
α-Copaene	0.3
Sativene	t
β-Cubebene	t
E-Caryophyllene	0.1

Alloaromadendrene	0.2
β-Selinene	0.1
Bicyclosesquiphellandrene	t
epi-Cubebol	0.3
α-Selinene	0.2
α-Murolene	0.1
γ-Murolene	t
γ-Cadinene	0.3
Cubebol	0.3
Z-Calamylene	0.3
δ-Cadinene	0.4
α-Calacorene	0.1
Selin-3,7(11)diene	0.1
cis-α-Copaen-8-ol	0.5
Palustrol	0.1
Spathulenol	0.1
Caryophyllene oxide	0.4
Globulol	t
Viridiflorol	1.2
Humulene epoxide	0.3
Ledol	0.4
1- <i>epi</i> -Cubenol	0.2
1,10-di- <i>epi</i> -Cubenol	0.2
β-Copaen-4-α-ol	0.1
t-Murolol	0.1
Cubenol	0.1
Torreyol	t
Monoterpene hydrocarbons	4.5
Oxygen containing monoterpenes (including 41.2% of necrodane derivatives*)	76.0
Sesquiterpene hydrocarbons	2.2
Oxygen containing sesquiterpenes	4.3
Other compounds	1.3
Total identified	88.3

"t" = traces <0,05%.

Reference

- Videira R. Pesquisa de Inibidores Enzimáticos em Óleos Essenciais: Estudo da Actividade em BACE-1, uma Protease Aspártica Envolvida na Doença de Alzheimer. Tese de doutoramento, Universidade de Coimbra (2015).