

1 **Table S1.** Volatile composition of essential oils (% $\pm$ SD)

Compound	ASTERACEAE				LAMIACEAE (LABIATAE)		
	<i>Solidago chilensis</i>	<i>Artemisia annua</i>	<i>Tagetes minuta</i>	<i>Wedelia glauca</i>	<i>Heterothalamus alienus</i>	<i>Lepechinia floribunda</i>	<i>Satureja odora</i>
Monoterpenes hydrocarbons							
α -Thujene	0.101 $\pm$ 0.003						
α - Pinene	0.52 $\pm$ 0.01	0.719 $\pm$ 0.002		5.89 $\pm$ 0.08	4.70 $\pm$ 0.02	1.90 $\pm$ 0.03	0.25 $\pm$ 0.01
Camphene	0.201 $\pm$ 0.004	0.88 $\pm$ 0.01				3.2 $\pm$ 0.4	
Sabinene	0.43 $\pm$ 0.01	2.7 $\pm$ 0.2	1.29 $\pm$ 0.03	2.436 $\pm$ 0.007			0.397 $\pm$ 0.002
β - Pinene	0.90 $\pm$ 0.02	1.54 $\pm$ 0.02		8.90 $\pm$ 0.06	53.8 $\pm$ 0.2	1.3 $\pm$ 0.2	0.431 $\pm$ 0.002
Myrcene	5.6 $\pm$ 0.1	6.43 $\pm$ 0.08		0.500 $\pm$ 0.003	0.843 $\pm$ 0.006		
<i>para</i> -Cymene				1.77 $\pm$ 0.04	0.194 $\pm$ 0.001	0.752 $\pm$ 0.002	
Sylvestrene					5.164 $\pm$ 0.006		
Limonene	0.30 $\pm$ 0.01		12.32 $\pm$ 0.08	15.9 $\pm$ 0.8		2.2 $\pm$ 0.1	3.77 $\pm$ 0.04
(<i>E</i>)- β -Ocimene	2.3 $\pm$ 0.1		0.614 $\pm$ 0.002		2.068 $\pm$ 0.008		0.49 $\pm$ 0.02
(<i>Z</i>)- β -Ocimene			57.1 $\pm$ 0.9				
Oxygenated monoterpenes							
1,8-Cineole		19.1 $\pm$ 0.8		0.47 $\pm$ 0.01		12.47 $\pm$ 0.05	
dihydro-Tagetone			5.16 $\pm$ 0.03				
Artemisia ketone		36 $\pm$ 1					
<i>cis</i> - Sabinene hydrate				1.07 $\pm$ 0.04			
<i>para</i> -Mentha-2,4(8)-diene	0.201 $\pm$ 0.002						
<i>para</i> -Mentha-1(7),8-diene				0.369 $\pm$ 0.002			
Linalool		0.921 $\pm$ 0.002		1.410 $\pm$ 0.003			
<i>cis</i> -Thujone				1.78 $\pm$ 0.03			
<i>trans</i> -Thujone				0.160 $\pm$ 0.003			
<i>trans-para</i> -Mentha-2,8-dien-1-ol				1.164 $\pm$ 0.005			
α -Campholenal				0.306 $\pm$ 0.002			
<i>cis-para</i> -Mentha-2,8-dien-1-ol				0.974 $\pm$ 0.002			
(<i>E</i>)-Ocimene epoxy			0.700 $\pm$ 0.001				
<i>trans</i> -Pinocarveol				1.425 $\pm$ 0.005			
<i>trans</i> -Verbenol				1.169 $\pm$ 0.003			
<i>trans</i> -Sabinol							
Camphor		6.97 $\pm$ 0.04			7.18 $\pm$ 0.06		
Citronellal							
Menthone							26.9 $\pm$ 0.4
<i>iso</i> -Menthone							1.20 $\pm$ 0.03
(<i>Z</i>)-Tagetone			2.73 $\pm$ 0.03				
Pinocarvone				0.36 $\pm$ 0.05			
Borneol					8.43 $\pm$ 0.07		
Terpinen-4-ol		1.36 $\pm$ 0.02		1.791 $\pm$ 0.002	0.230 $\pm$ 0.002		
α -Terpineol		1.43 $\pm$ 0.01		0.451 $\pm$ 0.002	0.36 $\pm$ 0.02	1.33 $\pm$ 0.05	0.34 $\pm$ 0.02
<i>trans</i> -Carveol				2.06 $\pm$ 0.07			
Myrtenol		1.262 $\pm$ 0.001		1.37 $\pm$ 0.04			
<i>cis</i> -Piperitol				0.57 $\pm$ 0.03			
Verbenone				0.603 $\pm$ 0.001			

Supplementary table to the article "Inhibitory action of essential oils against proteases activity of *Paenibacillus* larvae, the etiological agent of American Foulbrood disease", by María C. Pellegrini, Lucía Zalazar, Sandra R. Fuselli and Alejandra G. Ponce. Spanish Journal of Agricultural Research Vol. 15 No. 4, December 2017 (<https://doi.org/10.5424/sjar/2017154-10785>)

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Carvone				2.314 ± 0.001			
(Z)-Ocimene			3.44 ± 0.04				
(E)-Ocimene			3.026 ± 0.001				
Pulegone							56 ± 3
Piperitone							0.44 ± 0.01
Piperitenone							2.3 ± 0.4
Sesquiterpenes hidrocarbons							
δ-Elemene	0.210 ± 0.004						
α-Ylangene		1.485 ± 0.003					
α-Cubebene						0.34 ± 0.01	
α-Copaene		0.43 ± 0.02		1.60 ± 0.03	0.307 ± 0.003	0.9 ± 0.3	
β-Elemene	1.21 ± 0.03			1.66 ± 0.02	0.599 ± 0.002		
α-Gurjunene						0.903 ± 0.007	
(E)-Caryophyllene			1.212 ± 0.002		2.99 ± 0.02	11 ± 1	
(E)-β-Farnesene		1.89 ± 0.05					
Aromadendrene						3.73 ± 0.05	
Seychellene						0.41 ± 0.04	
Myltaryl-4(12)-ene						0.353 ± 0.002	
α-Humulene	4.02 ± 0.03	0.641 ± 0.001	0.58 ± 0.03			2.78 ± 0.07	
Cumacrene					1.585 ± 0.003		
β-Acoradiene					1.131 ± 0.004		
Dauca-5,8-diene					5.23 ± 0.04		
9-epi-E-Caryophyllene						0.240 ± 0.001	
γ-Muurolene						0.45 ± 0.04	
α-Amorphene						1.32 ± 0.07	
β-Selinene					0.175 ± 0.004	0.355 ± 0.003	
Viridiflorol					0.201 ± 0.003		
γ-Gurjunene		0.890 ± 0.002					
Aristolochene					2.92 ± 0.02		
α-Muurolene	5.30 ± 0.01					0.547 ± 0.003	
Trans-Muurolo-4(14),5-diene		5.83 ± 0.08					
α-Bulnesene						0.906 ± 0.004	
Viridiflorene						1.679 ± 0.005	
Biciclogermacrene		0.343 ± 0.002	2.23 ± 0.01				1.7 ± 0.4
δ-Amorphene					2.17 ± 0.01		
γ-Cadinene	4.30 ± 0.03					1.96 ± 0.03	
δ-Cadinene		0.701 ± 0.001			0.906 ± 0.001	3.5 ± 0.8	
α-Cadinene	0.7 ± 0.1					0.30 ± 0.01	
Oxygenated sesquiterpenes							
(E)-Caryophyllene	0.070 ± 0.004						
Cubebol				3.810 ± 0.001			
α-Calacorene	0.4 ± 0.1						
Elemol	0.61 ± 0.02						
(E)-Nerolidol				0.36 ± 0.02		2.05 ± 0.06	
epi-Cubebol				2.114 ± 0.005			

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epi-Longipinanol	0.58 ± 0.02						
Germacrene B	0.32 ± 0.02						
Spathulenol		2.005 ± 0.003	0.948 ± 0.002		3.14 ± 0.03		1.49 ± 0.04
Viridiflorol		0.691 ± 0.002					
Caryophyllene oxide		2.57 ± 0.04		1.729 ± 0.001		3.21 ± 0.06	
Guaiol						8 ± 1	
Humulene epoxide II	46.1 ± 0.3						
Neo-Intermedeol						1.40 ± 0.07	
Pogostol						2.6 ± 0.6	
Junenol				0.982 ± 0.001			
Muurola-4,10(14)-dien-1-β-ol	0.32 ± 0.02						
epi-α-cadinol	2.71 ± 0.02				1.28 ± 0.04		
epi-α-Murrolol				5.951 ± 0.003	1.12 ± 0.02		
Khusinol					2.12 ± 0.03		
α-Eudesmol						0.95 ± 0.05	
Bulnesol						2.2 ± 0.9	
Others							
13-epi-manool oxide							0.571 ± 0.003
Bornyl acetate	0.161 ± 0.002					0.628 ± 0.003	
Geranyl acetate					0.73 ± 0.01		
Total							
Monoterpenes hydrocarbons	10.9 ± 0.3	12.26 ± 0.03	71.3 ± 0.3	36.5 ± 0.4	66.79 ± 0.03	9.35 ± 0.06	5.338 ± 0.002
Oxygenated monoterpenes	0	67.26 ± 0.08	15.06 ± 0.04	22.755 ± 0.004	0.591 ± 0.001	29.4 ± 0.6	87.18 ± 0.07
Sesquiterpenes hydrocarbons	21.5 ± 0.2	11.51 ± 0.02	4.021 ± 0.005	4.60 ± 0.03	18.76 ± 0.04	31.7 ± 0.8	1.70 ± 0.02
Oxygenated sesquiterpenes	58.9 ± 0.2	5.27 ± 0.03	0.95 ± 0.06	19.50 ± 0.02	11.693 ± 0.002	20.41 ± 0.05	2.061 ± 0.001
Other compounds	0.430 ± 0.002	0	0	0	0.728 ± 0.003	0.628 ± 0.002	0
Compounds identified	91.7 ± 0.3	96.30 ± 0.02	91.13 ± 0.08	83.35 ± 0.04	98.56 ± 0.04	93.6 ± 0.4	99.90 ± 0.01
Unidentified compounds	3.2 ± 0.4	2.5 ± 0.3	8.6 ± 0.2	16.65 ± 0.03	1.33 ± 0.02	6.4 ± 0.2	0.006 ± 0.001

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