

Supplementary Material

Table S1. Elution gradient used for anthocyanidin separation during UHPLC-MS/MS analysis.

Time (min)	Flow rate (mL/min)	Solvent A (%)	Solvent B (%)
Initial	0.5	20	80
4.5	0.5	0	100
5.5	0.5	0	100
5.51	0.5	20	80
7.0	0.5	20	80

Table S2. Chemical formula, retention time, base peak (quantifier) ions (m/z), and reference ions used for identification and quantification of terpene compounds targeted via GC-MS.

Compound name	Chemical formula	Retention time (min)	m/z	Reference Ions
α -Pinene	C ₁₀ H ₁₆	5.497	93	91.00-92.00-77.00-79.00-41.00
Camphene	C ₁₀ H ₁₆	5.783	93	121.00-79.00-91.00-67.00-41.00
β -Pinene	C ₁₀ H ₁₆	6.247	93	41.00-69.00-91.00-79.00-77.00
β -Myrcene	C ₁₀ H ₁₆	6.353	41	93.00-69.00-91.00-79.00-77.00
3-Carene	C ₁₀ H ₁₆	6.748	93	91.00-79.00-77.00-92.00-80.00
α -Terpinene	C ₁₀ H ₁₆	6.872	121	136.00-91.00-77.00-79.00
<i>p</i> -Cymene	C ₁₀ H ₁₄	6.992	119	134.00-91.00-117.00-120.00-77.00
(<i>R</i>)-(+)-Limonene	C ₁₀ H ₁₆	7.082	68	93.00-67.00-107-94
Eucalyptol	C ₁₀ H ₁₈ O	7.132	43	81.00-108.00-93.00-71.00-84.00
β -Ocimene	C ₁₀ H ₁₆	7.285	93	91.00-79.00-80.00-41.00-77.00
γ -Terpinene	C ₁₀ H ₁₆	7.487	93	91.00-136.00-77.00-121.00-92.00

Terpinolene	C ₁₀ H ₁₆	7.828	93	121.00-136.00-91.00-79.00-77.00
L-(-)-Fenchone	C ₁₀ H ₁₆ O	7.877	81	69.00-41.00-80.00-152.00-82.00
Linalool	C ₁₀ H ₁₈ O	7.938	71	43.00-41.00-93.00-55.00-69.00
Fenchol	C ₁₀ H ₁₈ O	8.198	81	80.00-43.00-69-93-111
Isopulegol	C ₁₀ H ₁₈ O	8.47	41	105.00-136.00-79.00-91.00-93.00
(1 <i>R</i>)-(+)-Camphor	C ₁₀ H ₁₆ O	8.478	95	41.00-81.00-55.00-69.00-67.00
Isoborneol	C ₁₀ H ₁₈ O	8.622	95	41.00-93.00
Borneol	C ₁₀ H ₁₈ O	8.688	95	110.00-41.00-43.00-67.00-55.00
Menthol	C ₁₀ H ₂₀ O	8.712	71	81.00-95.00
(-)- α -Terpineol	C ₁₀ H ₁₈ O	8.85	59	93.00-121.00-43.00-81.00-136.00
Citronellol	C ₁₀ H ₂₀ O	9.033	41	69.00-55.00
(+)-Pulegone	C ₁₀ H ₁₆ O	9.17	81	67.00-152.00
Quinoline*	C ₉ H ₇ N	9.198	129	102.00-128.00-51.00-130.00-76.00
Eugenol	C ₁₀ H ₁₂ O ₂	9.808	164	103.00-77.00-131.00-149.00-91.00
Geranyl acetate	C ₁₂ H ₂₀ O ₂	9.878	69	41.00-43.00-68-93-121-136
α -Cedrene	C ₁₅ H ₂₄	10.183	119	93.00-105.00
β -Caryophyllene	C ₁₅ H ₂₄	10.183	93	41.00-91.00-133.00-69.00-79.00
α -Humulene	C ₁₅ H ₂₄	10.335	93	80.00-121.00-41.00-91.00-92.00
Valencene	C ₁₅ H ₂₄	10.473	161	105.00-93.00-107.00-91.00-119.00
(<i>Z</i>)-Nerolidol	C ₁₅ H ₂₆ O	10.53	69	41.00-93.00-43.00-71.00-107.00
(<i>E</i>)-Nerolidol	C ₁₅ H ₂₆ O	10.64	69	41.00-93.00-43.00-71.00-107.00
Caryophyllene oxide	C ₁₅ H ₂₄ O	10.827	43	41.00-79.00-93.00-91.00-69.00
Guaiol	C ₁₅ H ₂₆ O	10.832	161	105.00-107.00-59.00-93.00-81.00
(+)-Cedrol	C ₁₅ H ₂₆ O	10.938	95	150.00-151.00-43-41-81
β -Eudesmol	C ₁₅ H ₂₆ O	11.06	59	149.00-108.00-164-93
α -Bisabolol	C ₁₅ H ₂₆ O	11.092	43	119.00-109.00-69.00-41.00-93.00
Phytol I	C ₂₀ H ₄₀ O	12.122	71	43.00-57.00-41-123-69
Phytol II	C ₂₀ H ₄₀ O	12.183	71	43.00-57.00-41-123-69

*Internal standard