

Supporting Information

Antioxidant and Anti-quorum Sensing Potential of *Acer monspessulanum* subsp. *monspessulanum* Extracts

Ozgur Ceylan¹, Mehtap Donmez Sahin², Gultekin Akdamar³

Affiliations

¹Ula Ali Kocman Vocational School, University of Mugla Sıtkı Koçman, Mugla, Turkey

²Faculty of Education, University of Usak, Usak, Turkey

³Faculty of Sciences, University of Mugla Sitki Kocman, Mugla, Turkey

Correspondence

Assoc. Prof. Dr. Ozgur CEYLAN

Ula Ali Kocman Vocational School

University of Mugla Sitki Kocman

48640 Mugla

Turkey

Phone: +90 252 211 3284

Fax: +90 252 211 1334

ozgceylan@hotmail.com

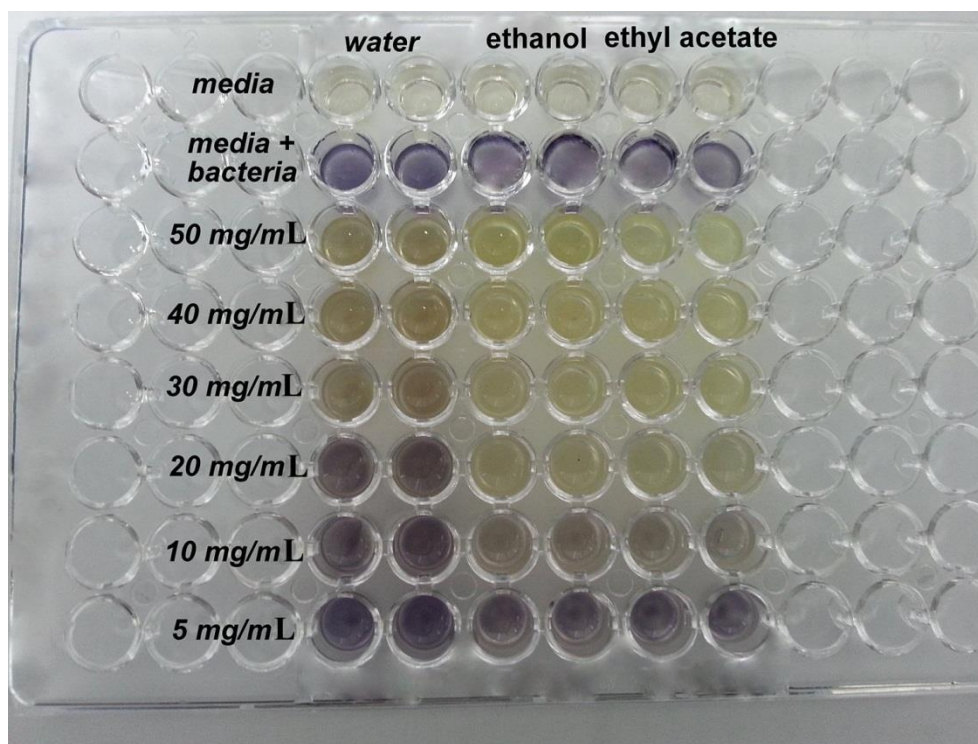


Fig. 1S Inhibition of violacein production in CV 12472.

Table 1S Effect of *A. monspessulanum* extracts on swarming motility.

Extracts	Inhibition of swarming (%)
	PA01 ^a
Water	-
Ethyl acetate	-
Ethanol	14.29 ± 1.00
Ampicillin	14.29 ± 0.53
Kanamycin	-

^aPercentage reduction of area of colony (indicating inhibition of swarming) in *Pseudomonas aeruginosa* compared with control in parentheses.

Table 2S Screening of *A. monspessulanum* extracts for anti-quorum sensing activity against *C.violaceum* CV026.

Extract	Concentration (mg/mL)	CV026	
		AM ^a	QSI ^b
Ethyl acetate	100	9.50 ± 0.50	19.00 ± 1.00
	80	9.50 ± 0.35	16.00 ± 1.00
	60	9.00 ± 0.50	15.50 ± 0.50
	40	-	-
	20	-	-
Ethanol	100	9.00 ± 0.50	19.50 ± 0.50
	80	8.50 ± 0.50	18.50 ± 0.50
	60	8.00 ± 0.33	17.50 ± 0.50
	40	-	16.00 ± 0.50
	20	-	12.50 ± 0.50
Water	100	-	10.50 ± 0.50
	80	-	10.00 ± 1.00
	60	-	8.50 ± 0.50
	40	-	-
	20	-	-
C₁₀HSL	-	-	24.00 ± 1.00

^aPresence of antimicrobial inhibition observed as a clear halo. Diameter of zone of inhibition in millimeters in parentheses.

^bDiameter of zone of quorum-sensing inhibition (cream-white halo) in millimeters in parentheses.