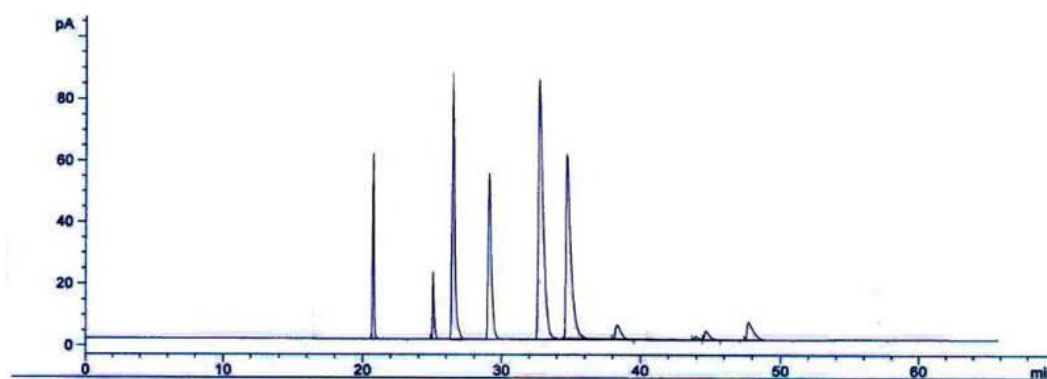


Supplementary file

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Supplementary Figure S1. Chromatogram of fatty acids found in Camelina DH lines

Supplementary Table S1. The geographical coordinates of the test study.

Specification	Details
Longitude	47 degrees 04 minutes
Latitude	34 degrees 39 minutes
Elevation above sea level	1319 meters
Average rainfall	440 mm
Soil texture	Clay loam
Climate and natural conditions	Cool temperate, Northern Zagros Mountains
Average maximum and minimum annual temperatures	24.1 and 6.8 degrees Celsius

Supplementary Table S2. Physical and chemical properties of the soil at the test site as reported by Pashaie et al. (2023).

Acidity	Phosphorus (ppm)	Potassium (ppm)	Nitrate (ppm)	Lime (ppm)	Organic matter (%)	Mass specific gravity (g cm ³)	Sand (%)	Silt (%)	Clay (%)	Soil texture	Soil depth (cm)
7.3	11	470	19.9	29.5	1.1	1.08	15.4	59.4	25.2	Loamy silt	0-30

Supplementary Table S3-A. Pearson correlation coefficients of agronomic and biochemical traits in Camelina DH lines.

	PH	PPP	SPP	AWT	SW	Oil	C18:1	C20:1	C22:1	C18:2	C18:3	C20:2	C18:0	C20:0	MUFA	PUFA
PPP	0.871***															
SPP	-0.297	-0.236														
AWT	0.258	0.345*	-0.170													
SW	0.290	0.364*	-0.206	0.974***												
Oil	0.048	-0.021	0.218	-0.081	-0.013											
C18:1	-0.037	-0.065	0.102	-0.261	-0.272	-0.049										
C20:1	-0.258	-0.183	0.394*	0.072	0.094	-0.121	-0.038									
C22:1	0.137	0.215	-0.014	0.135	0.186	0.106	-0.198	0.173								
C18:2	0.042	-0.065	0.152	0.069	0.071	-0.033	-0.426*	0.041	-0.029							
C18:3	0.104	0.124	-0.176	-0.060	-0.069	0.258	0.273	-0.166	0.136	-0.721***						
C20:2	-0.046	-0.127	-0.005	-0.040	-0.015	-0.068	0.046	0.002	0.073	0.533***	-0.239					
C18:0	0.160	0.051	-0.021	-0.247	-0.232	0.130	-0.080	-0.094	-0.213	0.134	0.035	0.012				
C20:0	0.288	0.275	0.164	0.179	0.183	0.253	-0.082	-0.092	-0.164	-0.088	0.116	-0.417*	0.482**			
MUFA	-0.076	-0.06	0.211	-0.196	-0.186	-0.055	0.905***	0.304	0.124	-0.409*	0.251	0.065	-0.161	-0.150		
PUFA	0.140	0.011	0.005	0.011	0.011	0.198	-0.224	-0.117	0.122	0.621***	0.072	0.674***	0.198	-0.104	-0.219	
SFA	0.253	0.177	0.073	-0.063	-0.052	0.215	-0.093	-0.108	-0.221	0.039	0.083	-0.211	0.888***	0.831***	-0.181	0.071

Computed correlation used pearson-method with pairwise-deletion. PH: plant height; PPP: pods per plants; SPP: seeds per pod; AWT: aerial weight; SW: seed weight. Numbers without any "*" or "ns" symbols are coefficients of correlations that are not statistically significant ($p>0.05$).

Supplementary Table S3-B. Pearson correlation coefficients of agronomic and biochemical traits in Camelina DH lines.

	PH	PPP	SPP	AWT	SW	Oil	C18:1	C20:1	C22:1	C18:2	C18:3	C20:2	C18:0	C20:0	MUFA	PUFA
PPP	0.871***															
SPP	-0.297	-0.236														
AWT	0.258	0.345*	-0.169													
SW	0.290	0.364*	-0.205	0.974***												
Oil	0.048	-0.021	0.219	-0.081	-0.013											
C18:1	-0.037	-0.065	0.102	-0.261	-0.272	-0.049										
C20:1	-0.258	-0.183	0.394*	0.072	0.094	-0.121	-0.038									
C22:1	0.137	0.215	-0.015	0.135	0.186	0.106	-0.198	0.173								
C18:2	0.042	-0.065	0.152	0.069	0.071	-0.033	-0.426*	0.041	-0.029							
C18:3	0.104	0.124	-0.176	-0.060	-0.069	0.258	0.273	-0.166	0.136	-0.721***						
C20:2	-0.046	-0.127	-0.005	-0.040	-0.015	-0.068	0.046	0.002	0.073	0.533**	-0.239					
C18:0	0.160	0.051	-0.021	-0.247	-0.232	0.130	-0.080	-0.094	-0.213	0.134	0.035	0.012				
C20:0	0.288	0.275	0.164	0.179	0.183	0.253	-0.082	-0.092	-0.164	-0.088	0.116	-0.417*	0.482**			
MUFA	-0.078	-0.061	0.212	-0.197	-0.188	-0.053	0.906***	0.303	0.123	-0.408	0.252	0.064	-0.162	-0.150		
PUFA	0.141	0.011	0.005	0.010	0.011	0.198	-0.223	-0.117	0.121	0.623***	0.069	0.675***	0.199	-0.104	-0.217	
SFA	0.250	0.174	0.075	-0.065	-0.053	0.217	-0.094	-0.110	-0.220	0.039	0.082	-0.213	0.887***	0.831***	-0.183	0.071

PH: plant height; PPP: pods per plants; SPP: seeds per pod; AWT: aerial weight; SW: seed weight. Numbers without any "*" or "ns" symbols are coefficients of correlations that are not statistically significant ($p>0.05$).

Reference

Pashaie M., Mondani M., Kahrizi D. 2023. Effect of sowing date and nitrogen fertilizer application on water use efficiency of camelina (*Camelina sativa* L.). Advanced Technologies in Water Efficiency 3(1): 1-8. (In Farsi). <https://doi.org/10.22126/atwe.2023.8943.1047>