

Table S1. Average weather data of the Fayoum District during the study season 2022.

Month	Day °C	Night °C	ARH (%)	AWS (ms ⁻¹)	AM-PEC-A (mm d ⁻¹)	AP (mm d ⁻¹)
March	34.7	5.5	54.0	2.81	4.12	0.48
April	34.9	9.6	49.5	2.90	5.72	0.04
May	44.5	12.4	40.4	3.53	6.98	0.00

Day °C= Average day temperature, Night °C= Average night temperature, ARH= Average relative humidity, AWS= Average wind speed, AM-PEC-A= Average of measured pan evaporation class A, and AP= Average precipitation.

Table S2. Chemical composition of irrigation water

Concentration of ions (meq L ⁻¹)								EC (dS m ⁻¹)	pH	SAR
CO ₃ ²⁻	HCO ₃ ⁻	SO ₄ ²⁻	Cl ⁻	Mg ²⁺	Ca ²⁺	K ⁺	Na ⁺			
0.00	2.08	3.28	11.4	1.76	5.44	1.35	6.16	1.68	7.46	2.91

EC= Electrical conductivity, and SAR= Sodium adsorption ratio.

Table S3. Proximate composition of garlic + onion extract (on dry matter basis).

Component	Unit	Value (mg/100 g)
pH		4.02
Crude protein	%	15.44
Carbohydrates		61.82
Fructose	mg/100g DW	14.53
Glucose		12.47
Sucrose		11.73
Total soluble sugars		38.73
Alkaloids	%	0.621
Saponin		0.205
Flavonoids		0.339
Steroids		0.004
Glycosides		0.048
Phenols		0.798
Terpenoid		0.394
Citric acid	mg/100g DW	96.44
Ascorbic acid		51.32
Titrateable acidity (as lactic acid)	%	1.04
DPPH-radical scavenging activity	%	76.21
K	mg/g DW	0.318
Ca		0.243
P		0.102
Fe		0.054
Mg		0.039
Zn		0.006
Mn		0.021
Cu		0.004

Table S4. Major ingredients of raw clover honey (based on fresh weight)

Component	Unit	Values
Moisture	%	17.8
pH	-	3.8
Osmoprotectants:		
Proline	μmol kg ⁻¹ FW	359.8
Total soluble sugars	%	82.0
Sugar fractions:		
Fructose	μmol kg ⁻¹ FW	212.0
Glucose		168.7
Maltose		12.0
Sucrose		19.0
Mineral nutrients:		
Potassium (K)	mmol kg ⁻¹ FW	7.98
Magnesium (Mg)		3.14
Calcium (Ca)		1.68
Phosphorus (P)		1.04
Iron (Fe)		0.99
Manganese (Mn)		0.84
Zinc (Zn)		0.08
Copper (Cu)		0.06
Iodine (I)		0.62
Antioxidants:		
Ascorbic acid (AsA; Vitamin C)	μmol kg ⁻¹ FW	72.2
DPPH radical-scavenging activity	%	88.2

Table S5. Primers sequences for semi-quantitative and quantitative RT-PCR of the stress-related genes in *C. pepo* plant

Gene	Reference Seq.	5'–3' primer sequence	T _A
<i>Actin 1</i>	AB181991	F: CTCTGACAATTTCCCGCTCA R: ACACGCTTCCTCATGCTATCC	58 °C
<i>Actin 2</i>	AT2G37620	F: GCTATTCAAGCCGTGCTTTC R: AGCATGTGGAAGGGCATAAC	
<i>SOD</i>	MG893090.1	F: TTCGCCATGCTGGTGATCTT R: CATGGACAACACTACGGCCCTT	
<i>CAT</i>	GU984379	F: GGCTGCTTGAAGTTGTTCTCCT R: CTGCTAGTACCTCCTGATCCGTT	
<i>APX</i>	KU747079.1	F: TGGCCTGCTCTTCCTCTAGT R: CATGCCACGCTAATCGAAGC	
<i>GR</i>	KX828561.1	F: CAACGCGCTTTGGTAACTCC R: GGGCCCTAATGAAGTGGAGG	
<i>PrxQ</i>	AY789643	F: ACTTCACGCTCAAGGACCAG R: CCGCCTTCTTGTAATTCTCG	