

Table 2 - The bioactive compounds isolated and identified from *C. humilis*

N	Taxa/ Country	Part of plant	Extracts / Essential oils	Methods	Chemical class	Chemical name of main compound	References
1	<i>C. humilis</i> India	Leaves/ Fruits	Methanol	Maceration	Steroid saponin	Diosgenin	Panizo and Pinar (1962)
2	<i>C. humilis</i> Italy	Fruits	Methanol	Maceration	Flavonol monomers	(+)-Epicatechin	Monache et al. (1971)
3	<i>C. humilis</i> USA	Leaves	Methanol	Maceration	Flavonoid	Leucoanthocyanidin	Harbone et al. (1973), Williams et al. (1974)
4	<i>C. humilis</i> USA and Morocco	Leaves	Methanol/ Aqueous	Maceration/ HPLC	Flavon	Tricin 5-O-glycoside	Harbone et al. (1973), Williams et al. (1974), Ziouti et al. (1996)
5	<i>C. humilis</i> USA	Flowers	Methanol	Maceration	Flavonoid	Rutin	Harbone et al. (1973), Williams et al. (1974)
6	<i>C. humilis</i> USA	Flowers	Methanol	Maceration	Flavonoid	Isorhamnetin 3-O-glycoside	Harbone et al. (1973), Williams et al. (1974)
7	<i>C. humilis</i> USA	Flowers	Methanol	Maceration	Flavonoid	Isorhamnetin 3-O-rutinoside	Harbone et al. (1973), Williams et al. (1974)
8	<i>C. humilis</i> USA	Flowers	Methanol	Maceration	Fatty acids	Caffeoylshikimic acid	Harbone et al. (1973), Williams et al. (1974)
9	<i>C. humilis</i> Japan	Leaves	Butanol	Maceration	Flavonoid	Tricin 7-O-rutinoside	Hirai et al. (1986),
10	<i>C. humilis</i> France (Montpellier)	Leaves essential oil	Washing in dichloromethane	HS-GC	Sesquiterpenes	Alpha-Farnesene	Caissard et al. (2004)
11	<i>C. humilis</i> France (Montpellier)	Leaves essential oil	Washing in dichloromethane	HS-GC	Monoterpenes	(E) Beta-Ocimene	Caissard et al. (2004)
12	<i>C. humilis</i> France (Montpellier)	Leaves essential oil	Washing in dichloromethane	HS-GC	Monoterpenes	Linalool	Caissard et al. (2004)
13	<i>C. humilis</i> Morocco, Algeria, (Adrar)	Leaves	Aqueous	HPLC/ Maceration	Flavonols	Quercetin	Ziouti et al. (1996), Bennaceur et al. (2010)
14	<i>C. humilis</i> Morocco Algeria, (Adrar)	Leaves	Aqueous	HPLC/ Maceration	Flavonols	Isorhamnetin	Ziouti et al. (1996), Bennaceur et al. (2010)
15	<i>C. humilis</i> European populations	Seeds oil	<i>n</i> -hexane	Soxhlet and esterification GC-MS	Fatty acids	Stearic acid	Giovino et al. (2014)
16	<i>C. humilis</i> European populations	Seeds oil	<i>n</i> -hexane	Soxhlet and esterification GC-MS	Fatty acids	Oleic acid	Giovino et al. (2014), Mokbli et al. (2018)

17	<i>C. humilis</i> var. <i>humilis</i> Tunisia (Tunis)	Seeds oil	<i>n</i> -hexane	Soxhlet and esterification GC-MS	Fatty acids	Linoleic acid	Giovino et al. (2014), Mokbli et al. (2018)
18	<i>C. humilis</i> var. <i>humilis</i> Tunisia (Tunis)	Seeds oil	<i>n</i> -hexane	Soxhlet and esterification GC-MS	Fatty acids	Lauric acid	Giovino et al. (2014), Mokbli et al. (2018)
19	<i>C. humilis</i> var. <i>humilis</i> Tunisia (Tunis)	Seeds oil/ Leaves	<i>n</i> -hexane	Soxhlet and esterification GC-MS	Fatty acids	Palmitic acid	Giovino et al. (2014), Khoudali et al. (2016)
20	<i>C. humilis</i> var. <i>argentea</i> Tunisia (Tunis)	Seeds oil	<i>n</i> -hexane	Soxhlet GC-FID	Vitamin E	δ -tocotrienols	Nehdi et al. (2014)
21	<i>C. humilis</i> var. <i>argentea</i> Tunisia (Tunis)	Seeds oil Quiescent seeds	<i>n</i> -hexane Methanol	HPLC Soxhlet GC-FID HPLC	Vitamin E	α -tocotrienols	Siles et al. (2013), Nehdi et al. (2014), Siles et al. (2015)
22	<i>C. humilis</i> var. <i>argentea</i> Tunisia (Tunis)	Seeds oil	<i>n</i> -hexane	Soxhlet GC-FID GC-MS	Vitamin E	γ - tocotrienols	Nehdi et al. (2014), Mokbli et al. (2018)
23	<i>C. humilis</i> var. <i>argentea</i> Tunisia (Tunis)	Seeds oil Quiescent seeds	Methanol <i>n</i> -hexane	HPLC Soxhlet GC-FID GC-MS	Vitamin E	γ -tocopherol	Siles et al. (2013), Nehdi et al. (2014), Mokbli et al. (2018)
	<i>C. humilis</i> var. <i>humilis</i> Tunisia (Tunis)						
	<i>C. humilis</i> var. <i>volcano</i> Spain						

24	<i>C. humilis</i> Morocco (Casablanca)	Leaves essential oil	Water	Hydrodistillation GC-MS	Tricyclic sesquiterpene	Spathulenol	Khoudali et al. (2016)
25	<i>C. humilis</i> Morocco (Casablanca)	Leaves essential oil	Water	Hydrodistillation GC-MS	Sesquiterpenoid	□-Eudesmol	Khoudali et al. (2016)
26	<i>C. humilis</i> Morocco (Casablanca)	Leaves essential oil	Water	Hydrodistillation GC-MS	Bicyclic sesquiterpene	Caryophyllene oxide	Khoudali et al. (2016)
27	<i>C. humilis</i> Morocco (Casablanca)	Leaves essential oil	Water	Hydrodistillation GC-MS	Aldehyde	Octadecanal	Khoudali et al. (2016)
28	<i>C. humilis</i> Morocco (Casablanca)	Leaves essential oil	Water	Hydrodistillation GC-MS	Acyclic diterpene	Phytol	Khoudali et al. (2016)
29	<i>C. humilis</i> Japan	Leaves/ Roots	Butanol	Maceration	Steroid glycoside	Methyl proto-Pb	Hirai et al. (1986)
30	<i>C. humilis</i> Japan	Stems/ Roots	Butanol	Maceration	Steroid saponin	Methyl protodioscin	Hirai et al. (1986)
31	<i>C. humilis</i> Japan	Stems	Butanol	Maceration	Steroid saponin	Pseudo-protodioscin	Hirai et al. (1986)
32	<i>C. humilis</i> Japan	Roots	Butanol	Maceration	Steroids aponin	Methyl proto- rhapissaponin	Hirai et al. (1986)
