

## *Marrubium vulgare* L.

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**Title:** Composition of the essential oil of *Marrubium vulgare* L.

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**Abstract:** *Marrubium vulgare* L. is one of the species of Labiatae. In this investigation the plant was collected from Khanehsorkh of Srjan in the late of May and essential oil of plant was obtained by hydro distillation method and dehydrated over anhydrous sodium sulfate. The amount of essential oil was about 0.1% which analyzed by GC-MS to 43 fractions. Identification of 34 components of essential oil was carried out by comparison of their retention indices and MS spectra data that represent 77.08% of total essential oil. The major compounds were Caryophyllene oxide (18.67%), Trans- caryophyllene (12.77%), Germacrene-D (10.04%), Bicyclogermacrene (3.38%) and Trans- anethole (3.01%).

**Key words:** *Marrubium vulgare* L., Essential oil, Gas Chromatography–Mass spectroscopy, Caryophyllene oxide.

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(Lamiaceae)

*Marrubium vulgare* L.

% /

% /

(% / )

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(% / )

(% / )

*Marrubium vulgare* L. :

*Marrubium vulgare* L.

Horehound

Hoary

Hound

( )

( ) Marrubin

( )

( )

( )

( )

*M. velutinum*  
Ladanein Marrubin *trachyticum*

( )

*M. peregrinum* *M. vulgare*

( )

( )

*M. vulgare*

( )

( )

( )

( )

( )

( )

( )

( )

( ) *M. vulgare* ( )

Wiley 275. L

( )

% / (v/w)

( )

/

( )

)

( )

Lamiaceae

Hewlett Packard

) DB-5

:

*Marrubium*

*M*

( )

( /

/ *vulgare*

*M*

/ - / *vulgare*

Svajdlenka Nagy, ( )

*M.peregrinum* *M. vulgare*

/

% / % /

:

( )

*M. vulgare*

*M. vulgare*

% / % /

% /

*M. vulgare*

% /

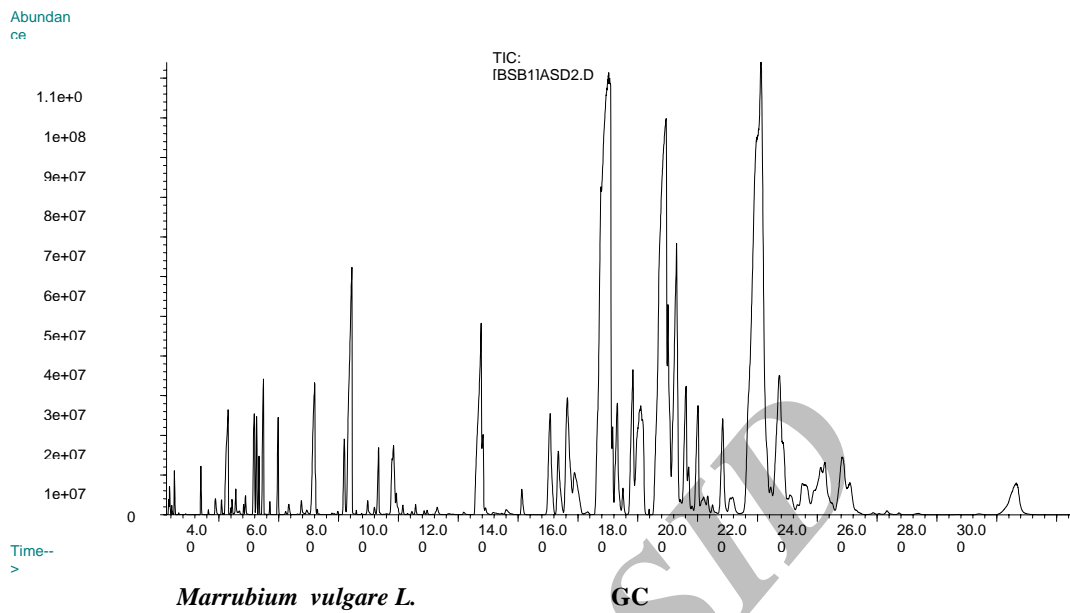
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*Marrubium vulgare L.*

		( )	
/		/	Alpha pinene
/		/	Camphene
/		/	Benzaldehyde
/		/	Sabinene
/		/	1-octen- 3-ol
/		/	Delta-3-carene
/		/	Para-cymene
/		/	Limonen
/		/	1,8-cineol
/		/	Cis-ocimene
/		/	Trans-beta-ocimene
/		/	Gamma-terpinene
/		/	Pyrazine tetramethyl
/		/	Linalool
/		/	L-camphor
/		/	L-borneol
/		/	Alpha-terpineol
/		/	Methyl salicylate
/		/	Trans-anethole
/		/	Cycloisositivene
/		/	Alpha-copaene
/		/	Beta-bourbonene
/		/	Beta-elemene
/		/	Trans-caryophyllene
/		/	Trans-alpha-bergamotene
/		/	Alpha-humulene
/		/	Trans-beta-farnesene
/		/	Dodecanol<n>
/		/	Germacrene-D
/		/	Beta-ionene
/		/	Bicyclogermacrene
/		/	Beta-bisabolene
/		/	Delta-cadinene
/		/	Caryophyllene oxide

DB-5



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