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# GC ANALYSIS REPORT

## DESCRIPTION / POPIS

NAME / NÁZEV	INCI NAME	CAS-No
Orange	<i>Citrus Sinensis Peel Oil</i>	8008-57-9

## SPECIFICATION / SPECIFIKACE

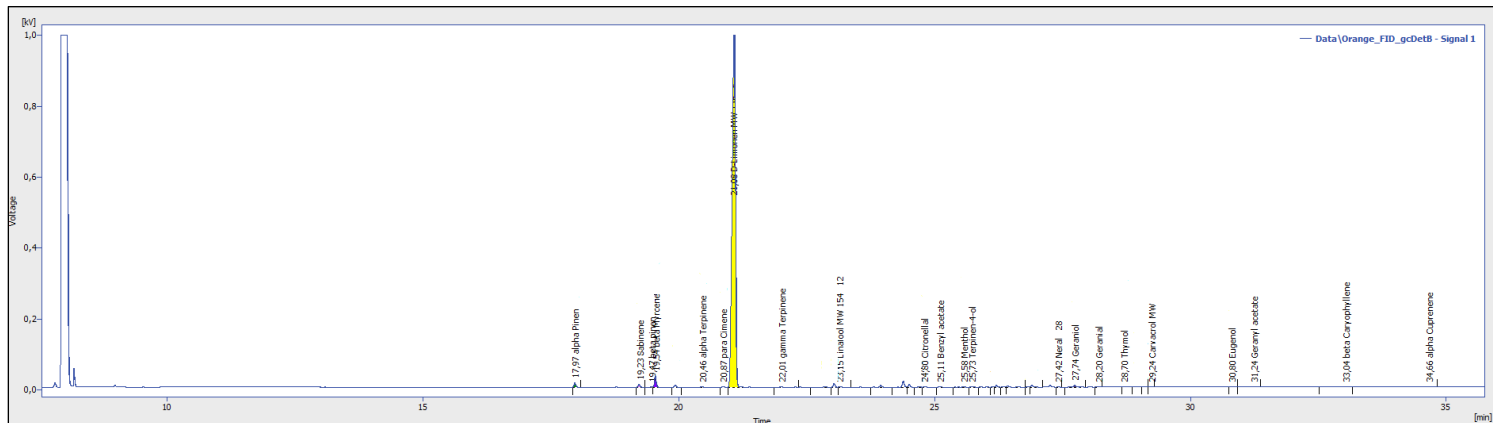
ORIGIN / PŮVOD	COLOUR / BARVA	ODOUR / VŮNĚ, ZÁPACH
Brazil	Pale yellow	Characteristic

APPEARANCE / VZHLED	SOURCE / ZDROJ	PRODUCTION / VÝROBA
Clear liquid	Bark	Cold pressed

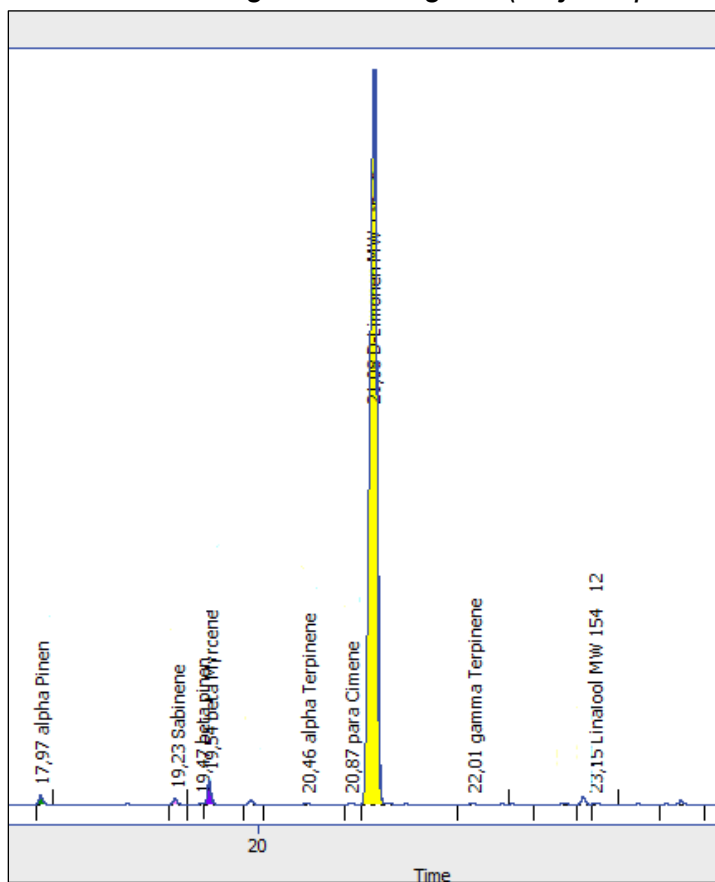
## COMPONENTS / SLOŽKY

COMPOUND / SLOUČENINA	RELATIVE CONTENT / OBSAH [%]	RETENTION TIME / RETENČNÍ ČAS
D-Limonen	93,1	21,08
β-Myrcene	1,5	19,54
α-Pinen	0,6	17,97
Sabinene	0,4	19,23

Picture 1. – Orange chromatogram (solvent used in the analysis, major and minor representation of peaks)



Picture 2. – Orange chromatogram (major representation of peaks without solvent)



## DESCRIPTION / POPIS

NAME / NÁZEV	INCI NAME	CAS-No
Red orange	<i>Citrus Sinensis Peel Oil</i>	8008-57-9

## SPECIFICATION / SPECIFIKACE

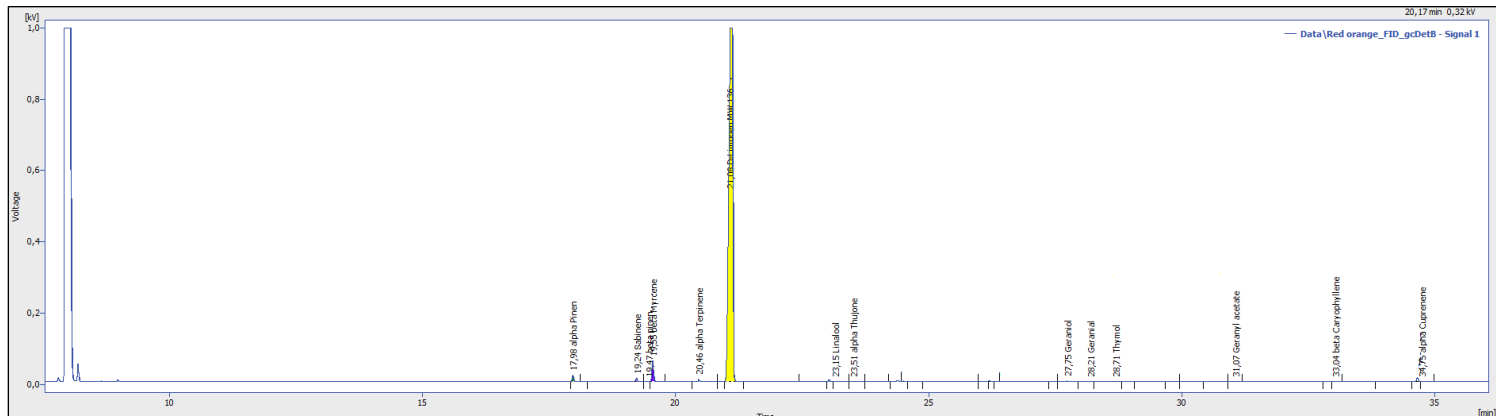
ORIGIN / PŮVOD	COLOUR / BARVA	ODOUR / VŮNĚ, ZÁPACH
Italy	Pale yellow	Characteristic

APPEARANCE / VZHLED	SOURCE / ZDROJ	PRODUCTION / VÝROBA
Clear liquid	Fruit peels	Cold pressed

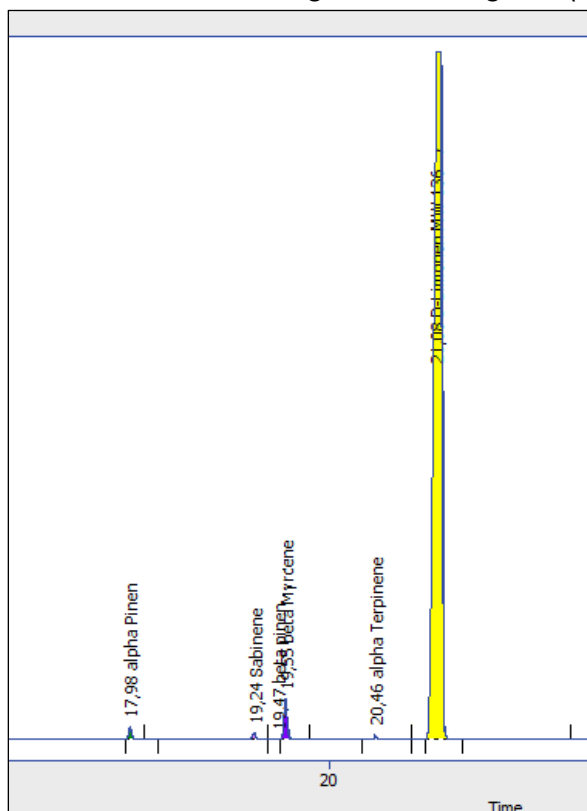
## COMPONENTS / SLOŽKY

COMPOUND / SLOUČENINA	RELATIVE CONTENT / OBSAH [%]	RETENTION TIME / RETENČNÍ ČAS
D-Limonen	94,6	21,08
β-Myrcene	2,2	19,55
α-Pinen	0,7	17,98
Sabinene	0,4	19,24

Picture 3. – Red orange chromatogram (solvent used in the analysis, major and minor representation of peaks)



Picture 4. – Red orange chromatogram (major representation of peaks without solvent)



- **Comparison, scientific studies**

Picture 5. – Chemical composition of essential oil of Orange [1]

Orange (sweet)	
Botanical name: <i>Citrus sinensis</i> L.	
Botanical synonym: <i>Citrus aurantium</i> L. var. <i>sinensis</i>	
Family: Rutaceae	
<b>Essential oil</b>	
Source: Fruit peel, by expression	
Key constituents:	
<i>American</i>	
(+)-Limonene	93.2–94.9%
β-Myrcene	2.6–3.1%
α-Pinene	0.6–1.0%
(Lawrence 1995g p. 48–49)	
<i>Brazilian</i>	
(+)-Limonene	86.1–93.4%
β-Myrcene	1.3–3.3%
β-Bisabolene	0–1.5%
α-Pinene	0.8–1.0%
(Lawrence 1995g p. 48–49)	

[1] TISSERAND, Robert a Rodney YOUNG. *Essential oil safety: a guide for health care professionals*. Second edition. Edinburgh: Elsevier, 2013. ISBN 9780443062414.