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# GC ANALYSIS REPORT

## DESCRIPTION / POPIS

NAME / NÁZEV	INCI NAME	CAS-No
Basil	Ocimum Basilicum Oil	8015-73-4

## SPECIFICATION / SPECIFIKACE

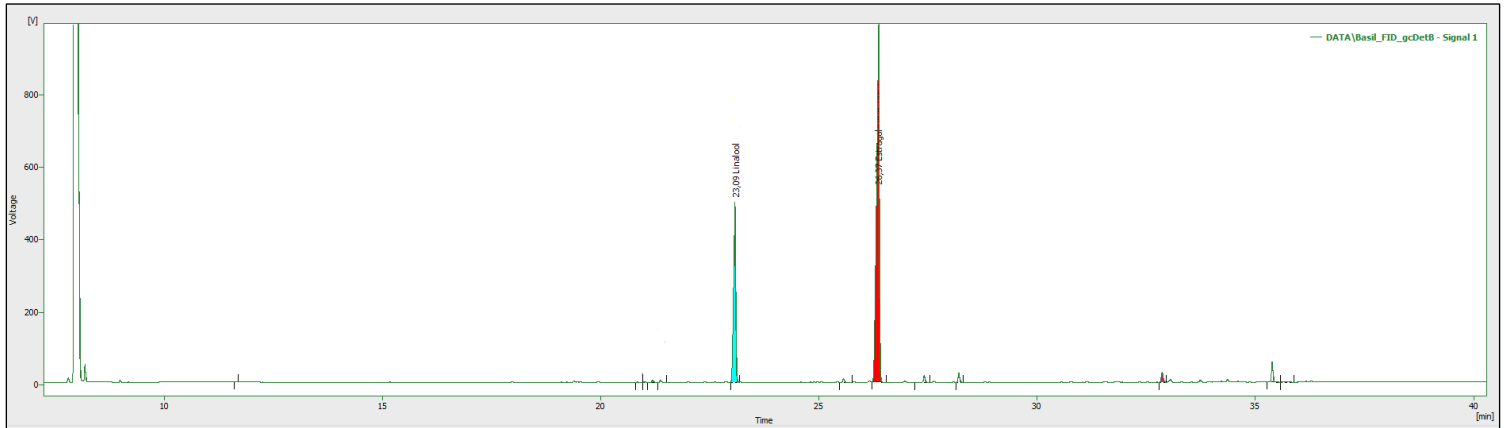
ORIGIN / PŮVOD	COLOUR / BARVA	ODOUR / VŮNĚ, ZÁPACH
India	Clear	Characteristic

APPEARANCE / VZHLED	SOURCE / ZDROJ	PRODUCTION / VÝROBA
Clear liquid	Leaves, flowers	Steam distilled

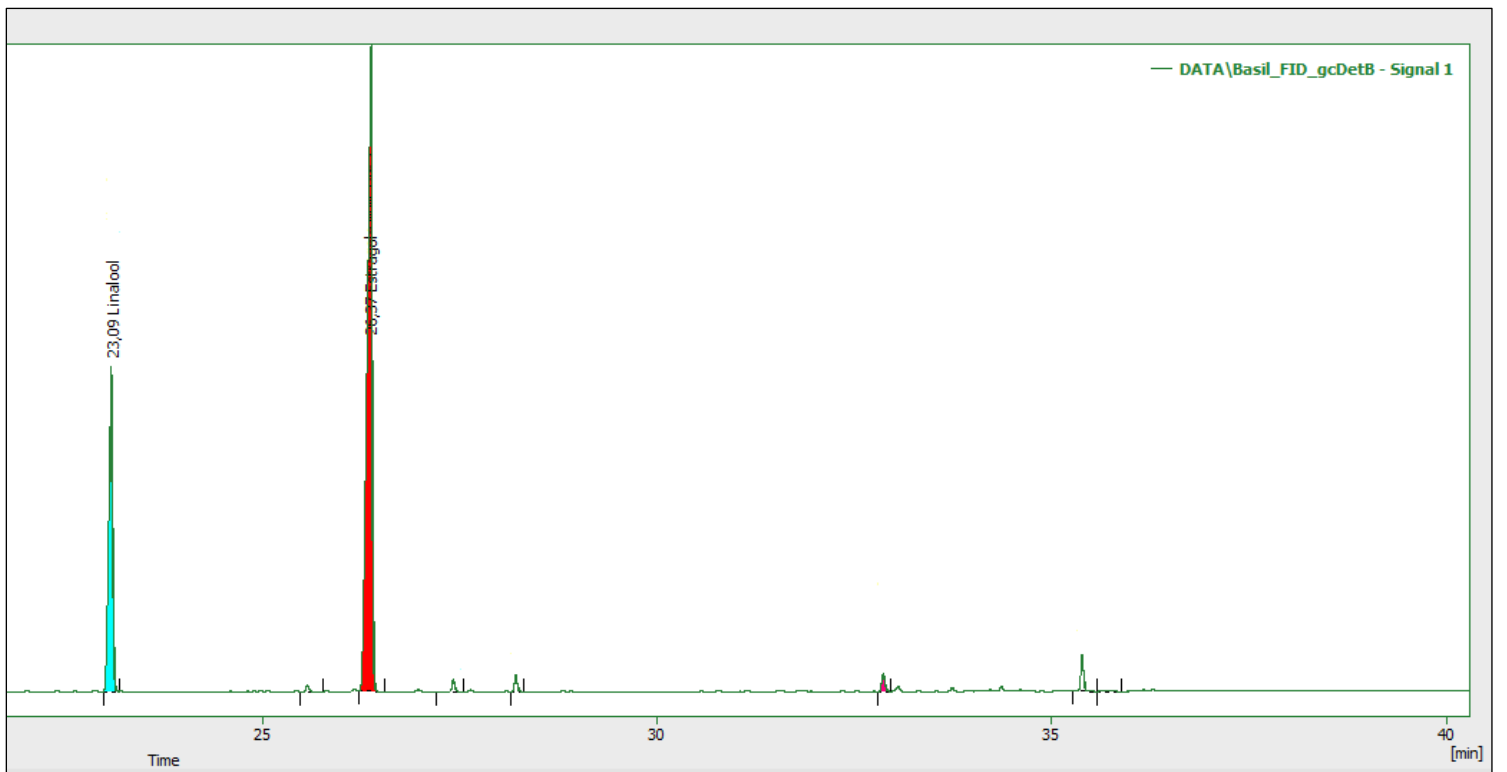
## COMPONENTS / SLOŽKY

COMPOUND / SLOUČENINA	RELATIVE CONTENT / OBSAH [%]	RETENTION TIME / RETENČNÍ ČAS
Estragole	75,1	26,37
Linalool	23,4	23,01
1,8 Cineole (Eucalyptol)	0,2	21,20

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



Picture 2. – Basil chromatogram (major representation of peaks)



- Comparison, scientific studies

Picture 3. – Chemical composition of essential oil of *Ocimum basilicum* [1]**Table 1.** Chemical composition of essential oil of *Ocimum basilicum*.

No.	Rt <sup>a</sup>	Compound <sup>b</sup>	Peak area (%)	Molecular formula
1	5.44	$\alpha$ -Pinene	0.39	C <sub>10</sub> H <sub>16</sub>
2	6.26	$\beta$ -Pinene	0.27	C <sub>10</sub> H <sub>16</sub>
3	7.43	1,8-Cineole	10.56	C <sub>10</sub> H <sub>18</sub> O
4	8.97	Linalool	5.57	C <sub>10</sub> H <sub>18</sub> O
5	11.21	Estragole (methyl chavicol)	55.95	C <sub>10</sub> H <sub>12</sub> O
6	11.80	Carvone	0.78	C <sub>10</sub> H <sub>14</sub> O
7	13.43	Eugenol	0.37	C <sub>10</sub> H <sub>12</sub> O <sub>2</sub>
8	13.95	Methyl cinnamate	0.32	C <sub>10</sub> H <sub>10</sub> O <sub>2</sub>
9	14.39	Methyl eugenol	10.09	C <sub>11</sub> H <sub>14</sub> O <sub>2</sub>
10	14.81	(Z,E)- $\alpha$ -Farnesene	4.45	C <sub>15</sub> H <sub>24</sub>
11	15.53	Longiborneol	0.33	C <sub>15</sub> H <sub>26</sub> O
12	16.06	$\alpha$ -Amorphene	0.50	C <sub>15</sub> H <sub>24</sub>
13	16.26	$\gamma$ -Muurolene	0.48	C <sub>15</sub> H <sub>24</sub>
14	17.12	$\beta$ -Caryophyllene oxide	0.42	C <sub>15</sub> H <sub>24</sub> O
15	18.01	$\alpha$ -Selinene	1.47	C <sub>15</sub> H <sub>24</sub>
16	20.21	Octadecane	3.45	C <sub>18</sub> H <sub>38</sub>
		Total identified	95.40	
		Monoterpene hydrocarbons	0.66	
		Oxygenated monoterpenes	16.13	
		Aromatic oxygenated monoterpenes	57.42	
		Sesquiterpene hydrocarbons	6.90	
		Oxygenated sesquiterpenes	0.75	
		Other constituents	13.54	

<sup>a</sup>Rt, retention time (min).<sup>b</sup>Compounds are listed in the order of their elution.

[1] Elsherbiny, Elsherbiny & El-Khateeb, Ayman & Azzaz, Nabil. (2016). Chemical Composition and Fungicidal Effects of *Ocimum basilicum* Essential Oil on *Bipolaris* and *Cochliobolus* Species. *Journal of Agricultural Science and Technology*. 18.