



NHR ORGANIC OILS  
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*Certificate of Analysis & Gas Chromatography*  
**Organic Balsam Fir Essential Oil**  
*(Abies balsamea)*

Botanical name :	<i>Abies balsamea (L.) Miller</i>
Commercial name :	Organic Balsam Fir
Batch number :	050923-1
Geographical origin :	Canada

**Physical and chemical data :**

	<b>Standards</b>	<b>Results of analysis</b>
<b>Appearance</b>	Liquid	Conform
<b>Colour</b>	Colourless to light yellow	Conform
<b>Odour</b>	Fresh, woody, resinous	Conform
<b>Specific gravity at 20°C</b>	0.860 to 0.885	0,8650
<b>Refractive index at 20°C</b>	1.470 to 1.480	1,4700
<b>Optical rotation at 20°C</b>	-35° to -5°	-19,00°
<b>Flash point</b>	+35°C to +50°C	

**Table of components:**

<b>Components</b>	<b>Contents</b>
Santene	1.83%
Tricyclene	0.91%
$\alpha$ -pinene	16.19%
$\alpha$ -fenchene	0.12%
Camphene	5.71%
$\beta$ -pinene	31.54%
Sabinene	0.15%
$\delta$ -3-carene	16.20%
Myrcene	2.08%
$\alpha$ -phellandrene	0.27%

$\alpha$ -terpinene	0.23%
Limonene	8.53%
$\beta$ -phellandrene	5.67%
$\gamma$ -terpinene	0.28%
Para-cymene	0.11%
Terpinolene	1.41%
$\alpha$ -thuyone	0.59%
Camphor	0.29%
Linalool	0.08%
Longifolene	0.26%
Bornyl Acetate	5.41%
Terpinene-4-ol	0.32%
$\beta$ -caryophyllene	0.17%
$\alpha$ -humulene	0.19%
$\alpha$ -terpineol	0.84%
Borneol	0.34%
$\beta$ -bisabolene	0.20%
<b>TOTAL</b>	<b>99.92%</b>