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## Certificate of Analysis

Product: Black Spruce Oil  
Botanical name: *Picea mariana*  
Origin: Canada  
Batch (Lot) number: 7146M  
CAS Number: 8008-80-8, 91722-19-9  
Date of MFG: 26-MAY-2017  
Expiration date: 26-MAY-2022

Parameters	Specification	Results
Physical Aspect	Clear light yellow to greenish liquid	light yellow
Odor Description	Typical coniferous smell	Complies
Specific Gravity @ 20°C (g/cm <sup>3</sup> )	0.890 -0.920	0.903
Refractive Index @ 20°C	1.460 – 1.500	1.472
<b>Main Components</b>		
α-pinene	18-24%	pending
Camphene	13-23%	
β-pinene	< 8.5%	
Δ <sup>3</sup> -Carene	7-12%	
Bornyl Acetate	18-25 %	

### Storage:

Store in well-filled, tightly sealed containers, in a cool dry place, away from direct sunlight. Avoid contact with iron.

This is a computer generated certificate of analysis and does not require a signature.