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Wholesale Botanics  
5900 NE 88<sup>th</sup> Street  
Vancouver, WA 98229  
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## Wholesale Botanics, Inc.

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Vancouver, WA 98229

**SUPPLIER NAME & LOCATION** WHOLESALEBOTANICS.COM, INC – 5900 NE 88<sup>th</sup> Street, Vancouver WA 98229  
**ATTENTION:** Quality Control & Records  
**EMAIL:** quality@wholesalebotanics.com  
**INGREDIENT NAME:** Pine Needle Essential Oil  
**DATE OF GOODS RECEIVED:** 11/14/2023  
**LOT NUMBER:** HMSEA11142023

## CERTIFICATE OF ANALYSIS

### Analytical Data

<b>Product Name</b>	Pine Needle Essential Oil	<b>Criterion of detection</b>	Pharmacopoeia
<b>Batch number</b>	PINHMUPIINC001A		
<b>Botanical name</b>	Pinus sylvestris	<b>Expiry date</b>	11/14/2026
<b>Parts Used</b>	Needles	<b>Extraction Method</b>	Steam Distilled

<b>Item</b>	<b>Standard</b>	<b>Result</b>
Appearance	Colorless to pale yellow liquid	Conforms
Smell	Unique aroma of pine needle	Unique aroma of pine needle
20°C Relative Density	0.857 to 0.885	0.8787
20°C Refractive Index	1.466 to 1.478	1.478
Optical rotation	-15° to +3°	-11.7°