



	<b>ESSENTIAL OIL SINGLES</b>		
	<h2>Ponderosa Pine Oil</h2> <p>Pinus ponderosa</p>		
<b>BATCH NUMBER</b>	<b>COUNTRY OF ORIGIN</b>	<b>EXTRACTION DATE</b>	
POD-115	USA	August 2023	

### Gas Chromatography Analysis (%)

<b>MONOTERPENE</b>			
$\alpha$ -pinene	28.74%	$\beta$ -pinene	21.43%
$\delta$ -3-carene	14.33%	limonene (d)	8.41%
$\beta$ -myrcene	3.20%	camphene	2.00%
terpinolene	1.99%	(Z)- $\beta$ -ocimene	1.02%
tricyclene	0.61%	$\gamma$ -terpinene	0.41%
p-cymene	0.38%	$\alpha$ -terpinene	0.28%
(E)- $\beta$ -ocimene	0.27%	$\alpha$ -phellandrene	0.21%
alloocimene	0.19%	sabinene	0.07%
<b>ESTER</b>			
bornyl acetate	5.06%	geranyl acetate	0.05%
linalyl acetate	0.03%		

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<b>SESQUITERPENE</b>			
$\beta$ -caryophyllene	1.66%	$\delta$ -cadinene	0.73%
$\alpha$ -caryophyllene	0.38%	germacrene D	0.31%
longifolene	0.26%	$\gamma$ -cadinene	0.24%
$\gamma$ -muurolene	0.19%	$\delta$ -elemene	0.16%
$\alpha$ -selinene	0.04%	aromadendrene	0.02%
$\alpha$ -cadinene	0.02%	$\beta$ -cadinene	0.01%

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<b>MONOTERPENOL</b>			
$\alpha$ -terpineol	1.51%	borneol	0.35%
terpinen-4-ol	0.28%	linalool	0.23%
(E)-pinocarveol	0.21%	fenchol	0.17%
p-cymen-8-ol	0.02%		

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<b>SESQUITERPENOL</b>			
$\alpha$ -muurolol	0.21%	$\alpha$ -cadinol	0.15%

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<b>OTHER</b>	
dehydro-p-cymene	0.25%

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<b>OXIDE</b>	
manool oxide	0.20%

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<b>KETONE</b>			
verbenone	0.05%	camphor	0.03%

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