

## Certificate of Analysis

Product: **Pine Scotch**

*Pinus sylvestris*

Batch: 180593

Plant Part: Needles and twigs

Extraction: Steam Distillation

Colour: Colourless to yellow

Specific Gravity @ 25 ° C 0.8748

Refractive index @ 20 ° C 1.4703

Optical rotation -1.68°	Sample	Component	Percent Concentration
	<i>Pinus sylvestris</i>	a-pinene	70.00
		camphene	2.38
		b-pinene	11.94
		p-cymene	0.47
		d-Limonene	3.67

Helen Gollan

Quality Assurance Manager

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