



**PINE NEEDLE OIL**

**CHEMICAL COMPOSITION (GC-MS)**

**LOT NO. 13464**

| COMPOUND       | CONTENT (%) | SPECIFICATION |
|----------------|-------------|---------------|
| ALPHA PINENE   | 53.90       | 32 - 60 %     |
| CAMPHENE       | 1.90        | 0.5 – 2 %     |
| DELTA 3 CARENE | 10.09       | 6 – 18 %      |
| BETA PINENE    | 8.02        | 5 – 22 %      |
| MYRCENE        | 3.29        | 1.5 – 10 %    |
| D - LIMONENE   | 9.21        | 7 - 12 %      |
| BORNYL ACETATE | 1.29        | 1 - 4 %       |
| PARA CYMENE    | 1.02        | MAX 2 %       |
| TERPINOLENE    | 0.48        | MAX 4 %       |