



Fir Tree Gum of the North .inc



## Property of Balsam Fir Resin Essential Oil

We know that Balsam fir sap is rich in monoterpenes, it is antiseptic, antifungal, antibacterial, antiviral and it is also attributed with anti-cancer properties. Fir gum and its essential oil "balsam fir turpentine" are natural antibiotics with the additional property of fighting viruses.

Here are the properties of the 3 main monoterpenes that make up fir gum and the percentage found in the essential oil of balsam fir turpentine

### **Beta-pinene 36.05%**

It is used as an adjunct to simple respiratory conditions: Bronchitis, Colds, Cough,

Property:

Antibacterial

Antifungal

Antiviral

Antiseptic

Expectorant

Mucolytic

Anti-edematous

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**Limonene: 33.54%**

Limonene is known for its antiseptic, antiviral and sedative properties.

Property :

Antiseptic, antiviral

Sedative and muscle relaxant, anxiolytic.

Lipid-lowering agent dissolving gallstones

Anti-inflammatory,

Anti-edematous

Anti-inflammatory bronchial, usable in asthma by inhibition of cytokines.

Potential action in chemoprevention and cancer chemotherapy, detoxification of carcinogens by induction of phase I and phase II enzymes, inhibits tumor promotion and progression by action on p21ras proteins,

Inducer of apoptosis, anti-angiogenic, antitumor, inhibits malignant cell growth

Preventive of skin cancer, reduction of chemo-induction of hepatocellular carcinomas.

D-limonene has anticancer properties as it is called an emerging antineoplastic agent. Limonene induces apoptosis via mitochondrial death and the suppression of cell mediators.

Anti-ulcer, gastro-protective, increases the secretion of mucus, shock proteins HSP-70

Limonene is a potential inhibitor of protein glycation that can help improve secondary complications of diabetes.

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## **Alpha-Pinene 22.21%**

The pharmaceutical industry often uses this effective molecule for the treatment of respiratory ailments: colds, coughs, bronchitis.

Property:

Antibacterial

Antifungal

Antiviral

Atmospheric antiseptic

Anti-edematous

Expectorant

It is known for its antiseptic properties. It can also be prescribed in case of bronchial hypersecretion.

Alpha-pinene is a bronchodilator in humans, and is highly bioavailable with 60% human lung absorption with rapid metabolism or redistribution.

It is an anti-inflammatory and appears to be an antimicrobial.

It has activity as an acetylcholinesterase inhibitor.

Available at:

**[www.firtreegumofthenorth.com](http://www.firtreegumofthenorth.com)**

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