

SuperSop Product Information Sheet



SuperSop is a Phytotherapeutic Extract Formulation made from

Annona muricata (leaf)	Soursop
Bacopa monnieri	Brahmi
Ocimum sanctum	Holy Basil
Berberis vulgaris	Berberine
Panax notoginseng	Notoginseng
Camellia sinensis (green)	Green Tea
Andrographis paniculata	Kalmegh
Curcuma longa (rhizome)	Turmeric

SuperSop is a Phytotherapeutic Extract Formulation featuring *soursop* (*Annona muricata*), a tropical fruit tree known for its rich content of bioactive compounds. The formulation of SuperSop is

centered on delivering the full spectrum of soursop's phytochemicals – including annonaceous acetogenins, alkaloids, flavonoids, and vitamins – in a concentrated and bioavailable form

Soursop (*Annona muricata*)—also known as Graviola or Guanábana—is a tropical fruit native to the Caribbean and Central/South America, widely revered in both traditional herbal medicine and modern nutraceutical circles. Its healing properties arise from a unique synergy of phytochemicals including acetogenins, flavonoids, alkaloids, and vitamins. Here's a comprehensive breakdown of its therapeutic benefits:

1. Anticancer Potential

The most widely discussed and researched property of soursop is its **anticancer activity**, particularly due to compounds called **annonaceous acetogenins**, found in the leaves, seeds, and fruit.

- **Mechanism:** These compounds inhibit **complex I of the mitochondrial electron transport chain**, leading to apoptosis (programmed cell death) in cancer cells without damaging healthy cells.
- **Research Highlights:**
 - In vitro studies show cytotoxic effects against **breast, prostate, pancreatic, lung, colon, and liver cancer** cells.
 - Acetogenins block ATP production selectively in tumor cells, disrupting their energy metabolism.
- **Caution:** Long-term or high-dose consumption may pose **neurotoxicity risks** due to its similarity to compounds that induce atypical Parkinsonism in some populations.

2. Antiviral and Antibacterial Effects-Soursop exhibits **broad-spectrum antimicrobial activity:**

- Effective against **Herpes simplex virus (HSV-1)** and certain strains of influenza.
- Shows inhibitory activity against **bacteria** such as *Staphylococcus aureus*, *Escherichia coli*, and *Salmonella* spp.
- Helps protect against parasitic infections, including *Leishmania* and *Trypanosoma cruzi*.

3. Neuroprotective and Antioxidant Properties

- Rich in **quercetin, luteolin, and vitamin C**, soursop protects against **oxidative stress** and **neuroinflammation**.

- Some studies suggest soursop leaf extract may support **cognitive function** and inhibit **acetylcholinesterase**, potentially offering benefit in **Alzheimer’s-like pathologies**.
- Antioxidant properties also slow down **neural degeneration** and promote overall brain resilience.
- Soursop extracts reduce **inflammatory mediators** such as **TNF-α and IL-6**, making it effective in chronic inflammatory conditions like arthritis.
- It has **analgesic (pain-relieving)** properties observed in rodent studies—comparable to morphine in some cases.

4. Digestive and Gut Health Support

- Traditional use includes **alleviation of constipation, parasitic infections, and gastric ulcers**.
- **Tannins and mucilage** in the pulp help soothe the digestive lining.
- Mild **laxative effects** assist in regular bowel movements.

5. Antidiabetic and Hypoglycemic Effects

- Leaf and fruit extracts have shown ability to **lower blood glucose levels** in diabetic animal models.
- May improve **insulin sensitivity** and reduce glucose absorption via inhibition of α-glucosidase enzymes.
- Also provides **renal protective effects** often compromised in diabetes.

6. Cardiovascular Benefits

- Helps lower **blood pressure**, possibly due to its **vasodilatory** and **diuretic** properties.
- Antioxidants and flavonoids help prevent **lipid peroxidation** and reduce **LDL cholesterol**, improving heart health.

7. Wound Healing and Skin Support

- Traditionally applied topically for **boils, rashes, and skin infections**.
- The **antimicrobial and anti-inflammatory** properties accelerate healing and reduce scar formation.

1. Immune Modulation

- *Annona muricata*: Inhibits viral replication, promotes macrophage activation, and scavenges reactive oxygen species (ROS).
- *Andrographis* + *Notoginseng*: Stimulate innate and adaptive immunity.
- *Curcuma longa*: Modulates NF-κB, reducing cytokine storms while enhancing immune surveillance.

2. Neuroprotection + Cognitive Support

- *Bacopa*: Enhances synaptic transmission, protects against oxidative neurodegeneration.
- *Camellia sinensis* + *Tulsi*: Reduce neuroinflammation and elevate BDNF expression.
- *Annona muricata*: Mild acetylcholinesterase inhibition, antioxidant neuronal protection.

3. Metabolic Optimization

- *Berberine*: AMPK activation, improved insulin sensitivity, lipid profile normalization.
- *Green Tea* + *Curcuma*: Inhibit adipogenesis, enhance glucose transport.
- *Annona*: Traditionally used for glycemic support and liver protection.

Dosing Recommendations

Form	Dosage	Frequency	Notes
Liquid Extract	2–3 mL	2× daily	Before meals for metabolic benefit