

WASHOUT- Herbal Nematicide with fungicidal activity

Washout is a natural herbal formulation having highly potent secondary metabolites for the control of plant parasitic Nematodes and fungal disease like wilt associated with it. Washout is found to be effective against a wide range of Nematodes and fungi such as Fusarium that attack the root system of crop plants. Since Washout is made from medicinal plants, the active ingredient gets hydrolyzed within the plant system and does not leave any toxic residues on the plants or on the yield. Even the infected plants will recover faster to resume the normal growth process to produce a significant yield.

MODE OF ACTION

Washout protects the plants & yield by controlling the plant parasitic nematodes through:

- Plant-derived **alkaloids, flavonoids, and terpenoids** interfere with nematode reproduction and growth as well as egg disruption. It also controls fungal vegetative growth and spore formation
- As a repellent, the herbal principles of Washout repel the nematodes from feeding the roots.
- The active ingredient retards the formation of Giant Cells around the head of the Nematodes.
- Timely application of Washout will ensure resistance to Nematode infestation.

BENEFITS

Washout is well suited for Organic Agriculture and in Integrated Pest Management (IPM) Programs.

- Washout is a natural product, absolutely non-toxic, 100% biodegradable and environmentally friendly, and harmless to non-target and beneficial organisms like pollinators, honeybees, mammals, and other vertebrates.
- Prevents Nematode and fungal infestation when applied at the early stage of the crop, the infested plants recover fully when treated with Washout.
- Washout does not destroy natural predators and parasites of pests thereby allowing these natural enemies to thrive to keep a check on the nematode population.

Target Nematodes of Crops

Nematodes and wilt causing fungi usually cause economic damage to pomegranate, bananas, Chilies, Turmeric, Ginger, Pepper, Vegetables, Tuber crops, etc.

Dosage:

The ideal dosage for prophylactic treatment is 2 to 3 ml per lit of clean water

The mode of application for **herbal nematicide "Wash Out"** can vary depending on the crop, soil conditions, and severity of nematode infestation. Below are the commonly used methods:

1. Soil Drenching (Most Effective)

- Mix **"Wash Out"** with water at the recommended dilution ratio (e.g., **5-10 ml per liter of water**).
- Apply the solution **directly to the soil around the plant base** using a watering can, sprayer, or drip irrigation.
- Ensure **deep penetration** to reach nematodes in the root zone.
- Best applied **before planting** and repeated **every 15-30 days** as required.

2. Seed Treatment

- **Soak seeds** in a diluted solution of "Wash Out" for **2-4 hours** before sowing.
- This provides **early-stage protection** against soil-borne nematodes.

3. Root Dip Treatment (For Nursery Plants & Transplants)

- Before transplanting, dip the plant roots in a diluted "Wash Out" solution for **30 minutes**.
- This helps eliminate nematodes clinging to young roots and **boosts initial plant health**.

4. Drip Irrigation (For Large-Scale Farming)

- Add "Wash Out" to the **drip irrigation system** to ensure uniform application in fields.
- Helps in long-term **nematode control** while maintaining soil microbiome balance.

5. Foliar Spray (Limited Use)

- While not primarily designed for foliar application, some formulations can be sprayed on leaves to reduce **secondary infections** caused by nematode-induced plant stress.

Best Time to Apply

- Apply **early morning or late evening** to prevent evaporation.
- For preventive use, start applications **2-3 weeks before planting**.
- For curative use, reapply every **15-20 days** until nematode levels decrease.