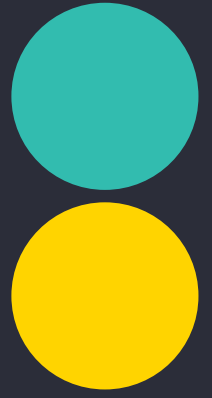


ECO LIVING IDEAS

EASY THINGS TO ADOPT

MARCH 2025



Bio Enzymes made easy

Waste into Resources - Kitchen waste

Bio Enzymes are natural solutions made from the fermentation of organic waste, primarily citrus peels, jaggery (or brown sugar), and water. They are rich in beneficial microbes and enzymes that can enhance soil health, promote plant growth, and serve as natural pest repellents.

- **Eco-Friendly:** Bioenzymes are made from kitchen waste, reducing the amount of organic waste sent to landfills.
- **Cost-Effective:** They are inexpensive to produce, using materials readily available at home.
- **Improves Soil Health:** Bioenzymes enrich the soil with beneficial microbes and nutrients.
- **Natural Pesticides:** They help in pest management without the harmful effects of chemical pesticides.
- **Plant Growth:** Bioenzymes enhance nutrient availability, leading to healthier and more vigorous plants.
- **Surface cleaner:** Chemical-free solution that can be used for floor, tiles, toilet, stove/chimney, car cleaning, etc



Simple ingredients for Bio Enzymes

How to Prepare It?

Ingredients

1. Citrus peels (or other fruit peels)
2. Jaggery or brown sugar
3. Water

Steps to follow

- **Mix Ingredients:** Combine 1 part jaggery, 3 parts citrus peels, and 10 parts water in a plastic container with a tight lid.
- **Fermentation:** Leave the mixture to ferment for 3 months. Stir or shake the container occasionally to release gases produced during fermentation.
- **Strain:** After 3 months, strain the liquid to separate the bio-enzyme from the solid residues. The liquid is your bioenzyme, ready for use.

Things to Keep in Mind

- Use a plastic container, as the fermentation process can produce gases that might break glass containers.
- Keep the container in a cool, dark place.
- Make sure to occasionally release the gases by opening the lid slightly if using an airtight container.
- Label the container with the date of preparation.

Benefits and Dosage

Non-Leafy Vegetable Crops:

- **Dosage:** 200 ml per plant every two weeks
- **Benefits:** Enhances nutrient absorption and promotes healthy fruit development

Leafy Vegetable Crops:

- **Dosage:** 100 ml per plant every week
- **Benefits:** Improves leaf growth and increases yield

Fruit Trees:

- **Dosage:** 500 ml per tree every month
- **Benefits:** Boosts overall tree health, improves fruit size and quality

Household usage:

- For Bathroom cleaning: Dilute 20 ml in one liter of water and use it to clean tiles and floors.
- For mopping: Dilute 50 ml in 10 liters of water and use for mopping.
- For Dishwashing: Use bio enzyme along with soapnut(reetha) powder or wood ash. Make a paste of Bioenzyme and soapnut powder and use it to scrub your vessels.

Notes:

1. Dilution: Before applying and cleaning, dilute the bio-enzyme with water. A common ratio is 1:20
2. Spraying: Use the diluted solution as a foliar spray 1:100 or soil drench 1:50



Leave the mixture to ferment for 3 months. Strain and fill spray bottles



Bio Enzymes as Surface Cleaners



Bio Enzymes as Plant Health Carers



About Organo Et School

Organo Et School empowers people to embrace eco-living mindsets, behaviors, and habits. We recognize that for any positive impact to be sustainable, it must be long-term and inter-generational. Organo Et School is a learning initiative set up by Organo in 2017 and has been facilitating field visits and workshops for Schools and Interest Groups. Organo Et School, an experiential learning initiative by Organo since 2017, has impacted over 8000 students, 2000 adults, 1250 community residents, and 500 corporate employees.

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Recent programs conducted by Organo Et School



**OES at L&T Serene
County Children's Day
Carnival**



**Biodiversity awareness
program at Antharam
School in partnership with
WWF**



**Children's Day Celebration
at Organo Camp Schools**



**Celebrating Life and Art in
Nature: A Day of
Creativity and Learning at
Organo Antharam**



**Wildflower Bouquets for
Diwali: Embracing Natural
Beauty in Festive
Celebrations**



**Green Golu at Organo
Antharam**



**Harnessing Renewable
Energy for Soil Testing:
Students Innovation in
Sustainable Agriculture**



**Discover the art of Paddy
Plantation**



**An Engaging Snake
Awareness Workshop at
Organo Antharam**

