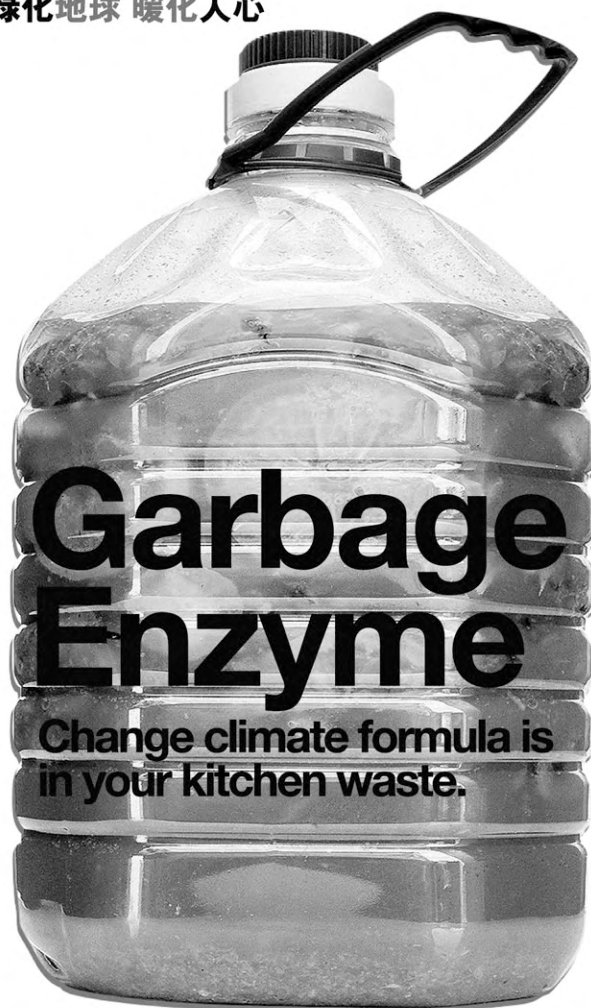


# CHANGE CLIMATE

绿化地球 暖化人心



**Garbage enzyme** is the solution to recover our ozone layer and lower the global temperature.

Discover the endless benefits of this Earth-saving enzyme you can make in your kitchen. It is rewarding to heal the Earth.

- **Save money:** Turn kitchen waste to DIY natural household cleaners.
- **Multiple usage:** Natural household cleaner; air purifier; deodoriser; insecticide; detergent; body care; car care; organic fertiliser, etc.
- **Reduce pollution:** Methane gas released from disposed garbage can trap 21 times more heat than CO<sub>2</sub>, worsen the global warming condition.
- **Purify air:** Remove odour. Dissolve toxic air released from smoking, car exhaust, chemical residues from household products, etc.
- **Purify underground water:** Enzyme that flow underground will eventually purify the river and the sea.
- **Natural pesticides:** Reduce mosquitoes, flies, rats or cockroaches etc.
- **Anti-bacterial and virus:** Natural antiseptic for your home.
- **Prevent drainpipe blockage:** Release residues accumulated in the pipe of basins or toilet bowls.

## Garbage enzyme

is a complex solution produced by fermentation of fresh kitchen waste (fruits and vegetables dregs), sugar (brown sugar, jaggery or molasses sugar) and water. It is dark brown and has a strong sweet sour fermented scent. Garbage enzyme is a multipurpose liquid and its applications covers household, agriculture, animal husbandry etc.

Garbage enzyme is developed by Dr. Rosukon from Thailand. She has been actively involved in enzyme research for more than 30 years and encourages people to make garbage enzyme at home to ease global warming.

## Change Climate

From day one you start making garbage enzyme, its catalyses process will release ozone gas (O<sub>3</sub>). O<sub>3</sub> can reduce carbon dioxide (CO<sub>2</sub>) in the atmosphere and heavy metal that traps heat in the cloud. Hence heat can be released from the Earth, reducing greenhouse and global warming effects.

Enzyme convert ammonia to nitrate (NO<sub>3</sub>), a natural hormone and nutrient for plants. Meanwhile it converts carbon dioxide to carbonate (CO<sub>3</sub>) which is beneficial to sea plants and marine life.

## DIY:

**CONTAINER:** Air tight plastic container.

**INGREDIENTS:** Water, fruit and vegetable dregs, sugar (brown sugar, molasses sugar or jaggery).

**step 1**  
10 Parts water  
(Fill up 60% of container)




**step 2**  
1 Part sugar  
(= 10% water content)



**step 3**  
3 Parts kitchen waste  
(Fill up to 80% full)



**step 4**  
Close tight  
Keep 3 months  
(open daily to release gases for first month)



Ingredients	Ratio	Example 1	Example 2	Example 3
BROWN SUGAR	1	1kg	2kg	0.5kg
VEGETABLE/FRUIT DREGS	3	3kg	6kg	1.5kg
WATER	10	10 Litres	20 Litres	5 Litres

### Here's how:

- 1 Use an air-tight plastic container.
- 2 Dilute sugar in water, follow by adding vegetable and fruit dregs.
- 3 Leave some space in the container for fermentation.
- 4 Close it tight.
- 5 During the first month, gases will be released during fermentation process. Release the pressure built up in the container to avoid rupturing.
- 6 Push the floating garbage downward every once in a while.
- 7 Place at cool, dry and well ventilated area. Avoid direct sunlight. Let ferment for at least 3 months before use.

### Direction for use:

Garbage enzyme can be used diluted with water at a specific dilution ratio.

### FOR GARDENING OR FARMING:

Dilute to 1000 times with water for use as natural insecticides, herbicides, pesticides and organic fertilisers. Also can be used to stimulate plant hormone to improve quality of fruits and vegetables and to increase crop yield.

Spray on land for 3 months continuously to improve soil quality.

### Take notes:

- 1 Do not use glass or metal containers that cannot expand.
- 2 Garbage for making enzyme does not include paper, plastic, metal or glass materials.
- 3 Avoid oily cooked food, fish or meat residues (can be used as garden compost material). To make a fresh smelling enzyme, add orange, lemon peel or pandan leave etc.
- 4 The ideal colour of garbage enzyme is dark brown. If it turned black, add in same amount of sugar to start fermentation process again.
- 5 It may have a white, black or brown layer on top of the enzyme, ignore it. If you encounter flies and worms in the container, leave it and the chemical reaction of enzyme will resolve them naturally. Close and seal the cover tightly.
- 6 Make full use of garbage enzyme residue:
  - Reuse for next production by adding fresh garbage.
  - Use as fertiliser by drying the residue, blend it and bury in the ground.
  - Grind the residue, pour into toilet bowl, add some brown sugar and flush to help purify sewage.
- 7 If you have not gathered enough kitchen waste, you may fill up the container gradually. The 3 month fermentation period start from the day you place your last batch of kitchen waste.
- 8 Garbage enzyme is at its best after 6 months of fermentation. The longer it takes, the better it gets. Garbage enzyme will never expire. Do not store in the refrigerator.
- 9 Help protect our ozone layer. If every household utilised their garbage to produce garbage enzyme, it can stop kitchen waste from polluting our land and meanwhile generate enough ozone gas to ease global warming. You can help change the climate!

### FOR HOUSEHOLD USE:

DILUTION RATE	USAGE	QUANTITY	APPLICATION
Concentrated Enzyme	Bath (add in bath water to improve skin condition)	50-100cc	Keep overnight
	Washing machine (clean and soften laundry)	20-50cc	Soak and wash
	Toilet bowl (prevent blockage & purify sewage)	250cc	Pour and flush
	Toilet cistern (purify water)	20-50cc (two caps)	2-3 times/ weeks
	Garden pond & water tank (purify water)	1/10,000 litre water	Add occasionally
10-50 times	Leather sofa (clean mold or stain)	Appropriate amount	Spray and wipe every 10 days
	Carpet & tatami mat (deodorise & antiseptic)	Slightly moist	Spray 1-2 times/ month
	Shoe, inside the car (deodorise & antiseptic)	Appropriate amount	Spray occasionally
	Kitchen sink, stove, cooker hood (clean oily stain)	Appropriate amount	Soak and wipe occasionally
	Black mold (antifungal)	Appropriate amount	Soak and wipe occasionally
200-500 times	Pet excretion, pet house (deodorise & antiseptic)	Appropriate amount	Spray occasionally
	Air-cond room (humidifier, deodorise & antiseptic)	Appropriate amount	Spray occasionally
500 times	Bathroom sink (clean)	Appropriate amount	Soak and wipe occasionally
	Cabinet and refrigerator (deodorise)	Appropriate amount	Spray occasionally
	Drain (prevent drainpipe blockage)	Appropriate amount	Flush occasionally
	Pet (bathing, deodorise & antiseptic)	Appropriate amount	Upon bathing or brushing
500-1000 times	Toilet (clean, deodorise & antiseptic)	Appropriate amount	Spray when wiping
	Indoor (purify air, deodorise & pest control)	Appropriate amount	Spray frequently
1000 times	Closet, clothes (deodorise & antiseptic)	Slightly moist	Spray occasionally
	Seeding and planting (fertiliser)	Appropriate amount	Rinse once

### Save on household cleaner and bodycare:

For shampoo, dish wash, laundry liquid etc: use enzyme to multiply and to reduce chemical residues. Ratio = 1 part enzyme : 1 part detergent/cleaner : 10 parts water

**Washing vegetables:** Add 30ml (2 tbsp) enzyme to 1 litre water. Soak for 45 minutes.

**Floor cleaning:** Add 30ml (2 tbsp) enzyme to moping water. To clean and sterilise.

**Car care:** Add 30ml (2 tbsp) enzyme to water tank to reduce car temperature.

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