



THE RECIPE

Ingredients:

10 liters = 10 kg of water

3 kg of pineapple waste

1 kg of brown sugar

Lemongrass oil

Equipment:

Clean, used 18-liter engine oil drum

Stirring utensil

Fine mesh or cheesecloth for filtering

Empty bottles for storage

Prep. Time: 15 minutes Cooking Time: 3 months Servings: 70 liter

Instructions:

- Clean and sanitize the 18-liter engine oil drum or container thoroughly to ensure a clean working environment.
- In the drum, combine 10 liters of water and 1 kg of brown sugar. Mix well to ensure all ingredients are evenly distributed. Then add 3 kg of pineapple waste.
- Stir the mixture daily using a stirring utensil. This helps in the fermentation process and allows the enzymes to develop. Maintain the mixture's temperature at around 25-30°C (77-86°F) during the fermentation period.
- Continue stirring the mixture daily for a period of 3 months. This duration allows for optimal enzyme production. Make sure to cover the container with a lid or cloth to prevent any contaminants from entering.
- After 3 months, the enzyme solution is ready to be filtered. Use a fine mesh or cheesecloth to strain the mixture and remove any solid residue. This will result in a clear enzyme solution.
- If desired, add additives like Lemongrass oil or coconut oil to enhance the cleaning properties or fragrance of the enzyme cleaner. Start with small amounts (e.g., 1-2 tablespoons) and adjust according to your preference. Mix well after adding the additives.
- Transfer the filtered enzyme cleaner into empty bottles for storage. Make sure the bottles are clean and sterilized before use. Seal the bottles tightly to prevent air or contaminants from entering.
- Label the bottles with the date of preparation and any additional information you find necessary.

Usage and Tips:

- This enzyme cleaner can be used for various cleaning purposes, such as removing stains, odors, and grease.
- Dilute the enzyme cleaner with water before use. A typical dilution ratio is 1 part enzyme cleaner to 10 parts water, but you can adjust it based on the cleaning task.
- Test the enzyme cleaner on a small, inconspicuous area before using it on delicate surfaces to ensure compatibility.
- Store the enzyme cleaner in a cool, dark place to prolong its shelf life. It should remain effective for up to 6 months if stored properly.

Note: It's important to exercise caution and follow safety guidelines when handling any cleaning ingredients or equipment.