

Bokashi Fermentation: Practice & Application to Urban Composting Operations

March 2023

WHO WE ARE



Who We Are



We are community composters working to build a zero-waste world.

We keep food waste out of landfills and use it to improve soil health and support resilient, and equitable food systems.





Composting Services







Home

Business

Events



Zero Waste Consulting



Software for Composters

BOKASHI FERMENTATION



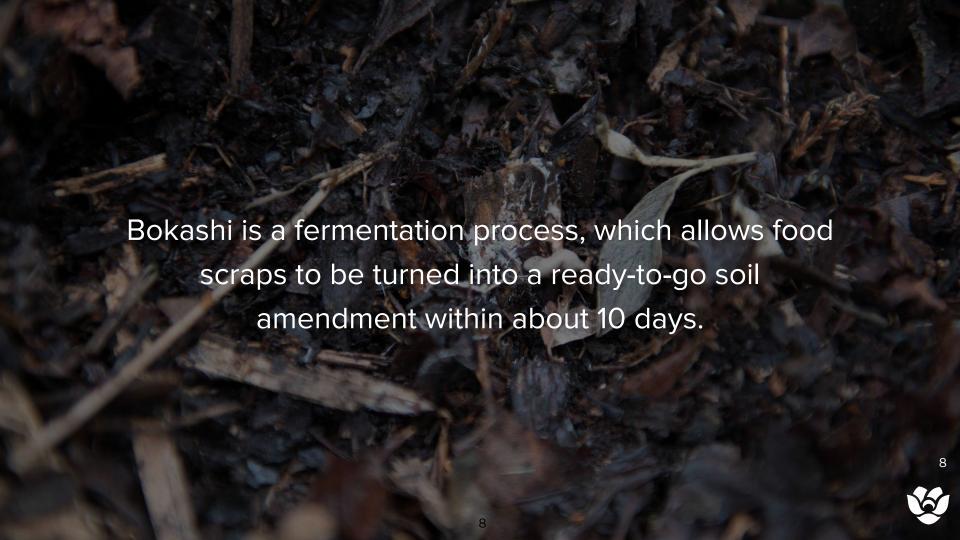
We're working to shape a new future for composting, one that provides a local solution, tailored to an urban environment.

To do that, we use bokashi fermentation.



Bokashi ≠ Compost





Traditional Composting

(Aerobic)



Bokashi

(Anaerobic Fermentation)



Aerobic Composting

(Aerobic)

Requires Outdoor Space

Limited Input Options (Depending on scale)

Regular maintenance



Bokashi Composting

(Anaerobic Fermentation)

Indoor Processing

Requires Less Space

More Input Options

Faster Turnaround

Less Labor

No Pests or Smell



HOW IT WORKS



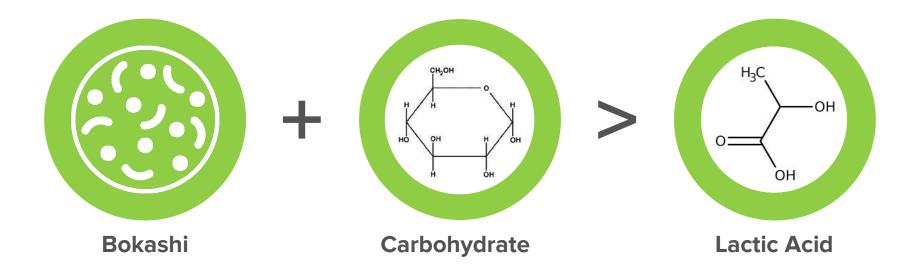
Effective Microorganisms



- Lactic acid bacteria : Lactobacillus casei
- Photosynthetic Bacteria: Rhodopseudomonas palustris
- Yeast: Saccharomyces cerevisiae
- •Others: beneficial microorganisms that exist naturally in the environment may thrive in the mixture.



Chemical Process: Bokashi Fermentation



Our Process





MAKING THE BRAN & TOOLS







Making Bokashi Bran



Making a Fermenter

Fermenter:

2 5-gallon buckets1 airtight lid1 spigot

Fermenter:

2 5-gallon buckets1 airtight lid1 spigot





The Gear







EPIC'S COMPOSTING PROCESS



Step 1 - Fermentation





Step 2 - Mixing & Acclimation



Step 3 - Hot Composting



Step 4 - Sifting & Finished Product





Bokashi composting is perfectly suited to an urban environment, or anywhere with limited green space.

A huge perk that's especially useful in urban spaces is that since everything stays contained, vertical space becomes a whole new resource.



Japanese American Cultural & Community Center

Hiro's Bokashi Workshop



Thanks!



Epic Renewal | Urban Composting





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