

A banner image showing a cross-section of soil with green grass growing on top. The text "BioComplete™ Liquid Amendments" is overlaid in white serif font.

BioComplete™ Liquid Amendments

Lecture 2- Definitions (Part 2)



Related Materials

Leachate

Passive movement of water through BioComplete™ Compost; not brewed, no organisms removed; soluble nutrients, enzymes, humics removed.

Plant tea

Compost not involved.

Fermented teas

Anaerobic conditions produce some quite toxic chemicals; can they be useful?

Manure tea

No compost involved, Anaerobic, and pathogens present, probably growing.

Put-to-sleep teas

Loss of 50% of species.



Is it extract or tea?

Is air exchange through the spout adequate to keep tea aerobic? NO!

Extract? Probably not!

Was a preservative added to prevent the container blowing up? Yep.....

What's the biology in there?

When to use BioComplete™ Extract/Tea?

BioComplete™ Extract – goes on soil, BioComplete™ Compost

- Apply when organisms don't have to stick immediately to surfaces.
- Let water carry the organisms into the soil.



BioComplete™ Tea – goes on foliage, in hydroponics systems

- Apply to surfaces where active, growing organisms must immediately stick to the leaves, fruit, flowers, bark, etc.
- Glues are only made by active organisms.





Topics

Definitions

**BioComplete™ Compost / Extracts / Teas,
Leachates, Ferments, Manure Tea, Put-to-Sleep
Teas**

General Concepts

**Assurance of Success, Foods, Biomass levels,
Diversity, Water Quality, Temperature, Aeration**

Extracts - Massaging, Duration, Storage

Teas - Foods, Extraction, Aeration, Duration

Application – Pumps, Timing, Cleaning



First.....

In ALL cases, determine:

The food web in the BioComplete™ Compost.

If you don't know anything about what biology is in the BioComplete™ compost, what's the likelihood you are just wasting your time applying the amendments?

You work hard, you need to KNOW it is worth your time to make BioComplete™ extract or tea.



Second.....

You need to know:

The food web in the soil or on the foliage

If you just assume all the organisms are missing, you might end up pushing the wrong balance of F to B.

You work hard, you need to KNOW what is or is not in your soil or on the foliage, so you fix the right problem(s).



Third.....

Is it worth it to apply the BioComplete™ extract or tea?

You need to know:

The food web in the BioComplete™ Extract or Tea

Have you added the missing organism groups?

Did you add enough? (see next slide)

You are working hard, you need to KNOW the organisms needed made it into your soil.



Fourth.....

Did the applications do the job?

You need to know:

Did the application fix the biology?

Make sure that the added organisms are present and growing. Are they doing their job?

You need to KNOW that the additions have done their job.