

Mosquitoes kill more people in one day than sharks killed over the last 100 years.



Yeast-Encapsulated Essential Oils (YEEO) provide a cost-effective, non-toxic, environmentally friendly solution for mosquito control.

- Mosquito-borne diseases (MBDs) including malaria, dengue fever, and yellow fever kill over one million people every year.
- Currently, there are no effective vaccines for most MBDs.
- Vector (mosquito) control is the best method to prevent the spread of disease through the use of insecticides.
- Current insecticides include petroleum compounds (known pollutants) and chemicals that pose health risks to humans and other wildlife.
- Using natural yeast cells and plant-derived essential oils to control mosquito larvae provides an effective, economical, and environmentally safe solution.

Solution

Essential oils (EOs) are produced by plants to defend against predators.



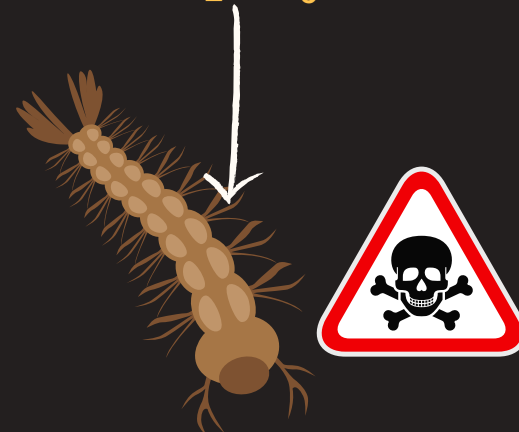
Yeast cells are a food-source for larvae.



EO's are encapsulated through the process of diffusion.



Ingestion of microcapsules containing essential oils rapidly kills larvae.



BENEFITS

- Demonstrated rapid killing of larvae in laboratory and field trials.
- Synthesized using only food-grade materials.
- Long shelf life, UV-resistant, and inexpensive to produce.
- No health effects on humans.
- No toxicity to beneficial species.

MARKET

- Value of larvicide market is estimated at US\$752 million in and projected to significantly increase.
- Global climate change is rapidly increasing MBDs, in the US and globally.
- Larvicide market grows with MBDs.
- Current market is dominated by large agricultural companies.