



WASTE WATER TREATMENT Black soldier fly larvae to treat wastewater on an inert media

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What we are looking for

We are looking for a suitable partner to enter into license deal/co-development partnership

What it is needed for?

This patent proposes an alternative treatment of waste water rich in biodegradable organic substances through the use of black soldier fly larvae (BSF).

Black soldier fly larvae are able to metabolize and stabilize huge amounts of organic matter, transforming it into larval biomass.

The larvae are terrestrial animals and so they hardly survive with difficulty in liquid environments. This invention proposes a method to guarantee the survival of the larvae in liquids and therefore in the management of waste water.

Advantages

- Higher removal kinetics compared to conventional activated sludge;
- Easiest treatment of high concentrated organic wastewaters
- Avoidance of solid waste (e.g. excess sludge and digestate);
- Resource recovery in terms of larval biomass
- Circular economy.

Applications

- Treatment of high organic content wastewater such as food industry wastewater;
- Resource recovery (e.g. Animal food, biodiesel production)
- Animal feed companies.

TRL scale

