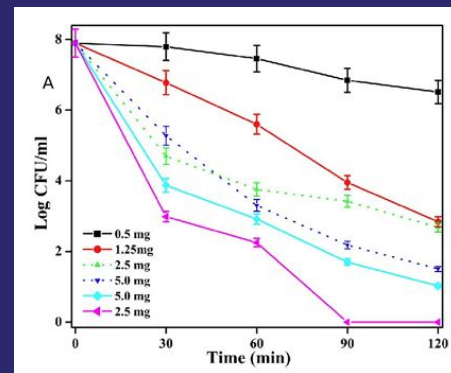


Granted IN393066

A bactericidal composition and a method for disinfecting water under visible light irradiation



NEED

Activated carbon typically promotes bacterial growth, hindering its application for water disinfection, but when combined with Ru(II) complex, bacterial growth is inhibited.

SOLUTION

The invention introduces a bactericidal composition comprising Ru(II) polypyridyl complex adsorbed onto activated carbon for effective water disinfection.

INNOVATION

Developing a bactericidal composition involving the adsorption of Ru(II) polypyridyl complex onto activated carbon, enhancing water disinfection under visible light irradiation.

MARKET ANALYSIS

Market: Water treatment and purification industry

CAGR: Moderate to high (due to increasing demand for clean water solutions)

Potential Indian Clients: Water treatment plants, municipal corporations, industrial facilities, research institutions

WHY INVEST?

Disinfecting water

Visible light irradiation

Ru(II) polypyridyl complexes

Photosensitizers



AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC B01J
- Domain
Water disinfection technology



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