

Utilization of Hydroxyapatite Produced by the Chang Deposition and Dephosphorization Method as Fertilizer

Question

How can we prevent eutrophication?

Background

- Japan imports a lot of phosphorus
- phosphorus causes outbreaks of blue-green algae

Hypothesis

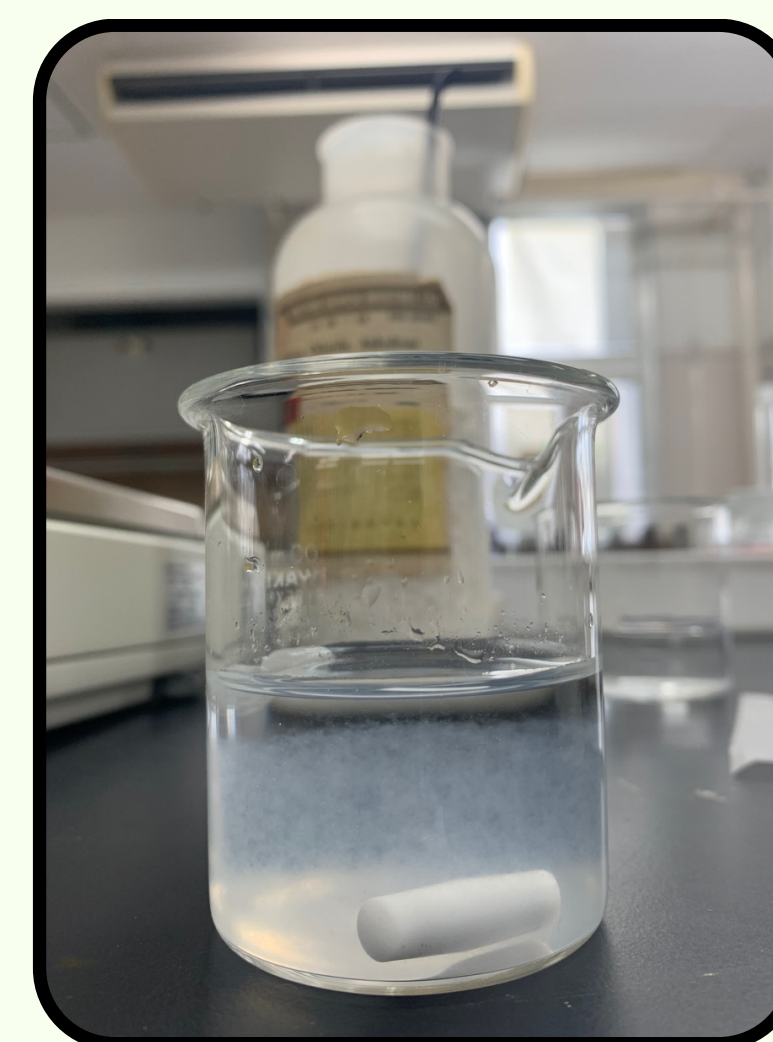
HAP methods is effective for eliminating phosphorus from ponds.

experiment

- Prepare 100ml of 1 g/L phosphoric acid solution.
- Add 0.388 g of calcium chloride.
- Stir by a magnetic stirrer



pH6.10



pH6.10



pH8.9

Results and conclusions

Precipitation began at pH of 6.10 or higher, and it didn't increase any further at pH of 8.90 or higher.

Next theme → catechin of tea
"whether catechin decrease blue-green algae or not and which types of catechins is effective."