

Abstract

We are working on developing an E. coli that uses different Mer proteins to break down the methylmercury found in fish into a less toxic form of mercury. Fish are soaked in this E. coli solution in order to break down the methylmercury and then cooked to remove all the E. coli, as the bacteria are unable to survive in higher temperatures. Our project is used to prevent mercury contamination and mercury poisoning in food. Mercury poisoning is a lethal condition when it isn't addressed, especially in shoreline and fish reliant countries. This plan is a potential efficient treatment process to ensure food safety.