

Like **purebred dogs** that have lost survival instincts, these lab bacteria are engineered to require specific nutrients only found in lab plates. Even if they were to escape, they would not find the necessary food and would not survive. This is a fundamental fail-safe.

2

Protection in Lab Environment

Bacteria are cultured in highly controlled and secure laboratories specially ventilated with air filters.

Researchers work within safety cabinets—protective glass enclosures—and **everything is contained**. All equipment and materials that contact the bacteria are sterilized at high temperatures and properly disposed of. It is a sealed, safe environment with no easy escape routes.



3

Regulations and Oversight

Scientists cannot undertake projects alone. A detailed **safety plan** must first be approved by a committee of professionals, including other scientists and community members. This committee acts as a safety **watchdog**.

Furthermore, all activities are governed by **strict government regulations** and are subject to **inspections**. These checks and balances ensure that safety is the top priority and that the exciting benefits of this research are pursued responsibly for the good of all.



WORK DISTRIBUTION

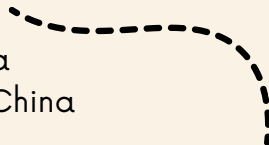


CHAPTER I

What is E. Coli?

Content: NAU - China

Design: HKU & NAU-China




CHAPTER II

Public Misconceptions and Clarifications

Content: HKU

Design: HKU

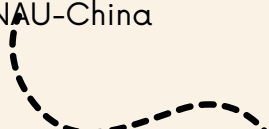


CHAPTER III

Applications of Engineered E. Coli

Content: NAU - China

Design: HKU & NAU-China



CHAPTER IV

Ethics and Biosafety

Content: HKU

Design: HKU

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From the HKU & NAU-CHINA iGEM Teams

Thank you for reading.

We hope you enjoyed the journey!