

miniPCR™ Genes in Space Food Safety Lab: Mars Colony at Risk!

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1. Synopsis

Students will help the International Space Program control an outbreak of pathogenic bacteria affecting space food in transit to Mars. They will do so by deploying essential molecular biology techniques such as PCR (polymerase chain reaction), restriction digest, and gel electrophoresis. This lab depicts real-world biotechnology applications in public health and surveillance.

- **Techniques utilized:** PCR, DNA restriction endonuclease analysis, electrophoresis
- **Time required:** One 110-min. period or two 55-min. periods
- **Reagents needed:** miniPCR Food Safety Lab kit, gel electrophoresis reagents (See Sections 5 and 9)
- **Suggested skill level:** Familiarity with DNA amplification and restriction analysis concepts, basic familiarity with micropipetting techniques

Risk Instructor Lab Manual

Richard Bailey



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