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Protocol for Bulk Water Enrichment for the Isolation of *Salmonella* from Surface Water

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1



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This protocol details the bulk water enrichment for the isolation of *Salmonella* from surface water.

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Supplies Needed


- Sterilized 2 L bottles
- Sterilized 500 mL and 1L graduated cylinders
- 5x Universal Pre-Enrichment broth (UPB, Acumedia #7510)
- Control strain, Salmonella typhimurium BIOBALL® Luminate (BioMerieux, #422190)

Protocol


- 1 Take 1 of the water sample bottles (containing  **1 L** of surface water) and carefully transfer water into a sterile 2 L Pyrex bottle.

2 

If needed, add control strain to water sample by gently tipping vial over the opening. Close bottle tightly and thoroughly mix sample.

- 3 Aseptically measure  **250 mL** of 5X UPB and pour into 2 L bottle (making final concentration of 1X UPB)

4  

Secure lid and mix thoroughly before incubating at  **37 °C** for 18-24 h.

For next steps, refer to "Selective Enrichment Protocol for Salmonella Isolation from Surface Water."