

6/6/13

- Functional test for Cadmium / Arsenic Detectors
 - samples: control + competent cells
 - positives/negatives - Arsenic Detector Single Colony 1
 - Arsenic Detector Single Colony 2
 - Cadmium Detector

Procedure

- Add 4mL of LB+chler to positives and negatives (only LB to competent cells)
- Add 200 λ Cadmium Nitrate (1M) to positives
- Add 100 λ of cells to corresponding positive and negative tubes
- incubate samples (1A, 1B, 2A, 2B, 3A, 3B, 4)
 - 1 - Arsenic Detector 1
 - 2 - Arsenic Detector 2
 - 3 - Cadmium Detector
 - 4 - Competent Cells

A - positive
B - negative

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Picked colony from transformations 6/3 - LB + Chlor

K824002-1

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- Picked 3 colonies from both I721002, I13401 transformations

Procedure (Cadmium/Arsenic Exp) Part 2

- grew overnight
- spin down samples for 5 min.
- resuspend in 1mL PBS and vortex

Results

- 4 consistently glowed the most
- All positives glowed more than the negatives but not as much as 4
- made plates of competent cells (did one for each resistance and no resistance)

No growth

- Chlor.
- Kan.

Growth

- LB
- Amp
- Tet.