**BIOTECH Project Resource Center Loan Checklist**

Teacher: Date loaned:

School: Number of groups:

students/classes: Independent:

**Materials for antibiotic senstivity lab (students work in groups of four)**:

|  |  |  |
| --- | --- | --- |
| Number | Item | Returned? |
| 1 per group | LB agar plates (if using more than one bacteria, then send additonal LB agar plates for each bacteria) |  |
| 8 | forceps |  |
| 8 | innoculation loops or sterile swabs |  |
| 5 per group | hole punch disks (send additional if using more than one bacteria) |  |
| 1 250ml | squeeze bottle for 70% ethyl alcohol (send ethanol in a sealed bottle) |  |
| 2 | cultures of wild-type *E. coli* or students can collect their own (add  one more LB agar plate if students are collecting their own bacteria). |  |
| 10 | 5 ml tubes, 2 each with:  --sterile water  --10mg/ml ampicillin  --10mg/ml streptomycin  --10mg/ml penicillin  --10mg/ml kanamycin |  |
| 1 | racks for tubes |  |

When you are reloading the bins, please check off each item in the 'Returned?' column as a double-check that all those little pieces of equipment get packed. Thanks!

If you have questions about experiments or materials, please feel free to contact the BIOTECH Project at:

Daryn Stover

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(520) 626-4664

**Have fun!**

**Recipes**

**LB Agar Plates:**

Dilute 32 grams of LB Agar to one liter with water and autoclave 25 minutes at 121°C on liquid cycle. For autoclaving greater quantities of solutions, add 5 minutes per liter of solution to the autoclave time. One liter will pour 40 large and 80-100 small plates. For 20 large plates, make 500 ml of LB agar (use 16 grams of solid mixture). The LB agar mixture can be melted in the microwave as an alternative to autoclaving. This process does not sterilize the agar, and the plates should be used within a few days. Plates can be stored at 4°C.

**Antibiotic solutions:**

Add 0.1 grams of antibiotic to 10 ml of sterile water. Solution needs to be stored at 4°C for up to 2 months.