

Independent Project Week Supplies

Student benches:

macropipettors, micropipettes, pipette tips, ep. tubes
ep. tube holders
turntable
spreader & beaker, alcohol, fire extinguisher can
alcohol lamp, matches
test tube rack
ice bucket
parafilm/saran wrap/alum. foil

Front/side benches:

blenders/large funnel/coffee filters
knife/scalpels/forceps
flasks/beakers/t.t. racks
balances/weigh boats
70%/95% ETOH; 80% & 100% Acetone; Pet. Ether
sterile toothpicks/swabs
sterile discs
latex gloves
50 ml/15 ml plastic cent. tubes
plastic petri plates
13 X 100 test tubes, grad. cylinders
1 ml/5ml serol. pipettes
stir plate, magnet (side of lab)
fly morgues
forceps, paint brushes, dissecting needles
index cards
mortars & pestles, sand
slides/coverslips
goggles
chromatography tanks
chromatography paper
stopwatches
ring stands with clamps, UV lamps
lamps
light box & included supplies for Hill reaction
lux meters
small funnels
thermometers
cellophane
pH paper

Incubators: 5° C (refrig.)—both rooms; 13° C, 17° C (for sea urchins), and 37° C (for bacteria)
incubators in A109
37 deg. shaker/incubator (containing overnight bacterial cultures) in A109
30 deg. shaker/incubator (for overnight yeast cultures) in A104
30 deg. constant temp. room—A108A—for yeast
25 deg. constant temp. room—A108B—for Drosophila

Refrigerators:

Supplies for peroxidase experiments:
3% H₂O₂--add 600 **microliters** to 20 ml. water to get working solution.
citrate buffer; TMB
DCIP
0.5M sucrose solution
stock solutions for making buffers of various pHs (see note on front desk for instructions)
blender bowls & tops
0.1 M NaOH and 0.1 M HCl
Sterile water (in tt racks)
rack of ep. tubes with 750 microl. of **sterile water** in each (FOR YEAST)

Also:

Euglena bottles on windowsill in A109
Plants & leaves from greenhouse/elsewhere: on table next to window in
A109
Antibiotic solutions—in refrigerator in A111

Chemicals et al.--on cart in A111:

caffeine, nicotine, MSG, tobacco, ethanol, sodium benzoate, rubbing alcohol
confect. sugar, nutrasweet (Equal), saccharin (Sweet 'N Low); salt
Listerine, Scope, other mouthwashes
herbicide, insecticide
household cleaners—Formula 409, Lysol, bleach, Pine-sol
antibacterial first aid cream; antibacterial cleaning products, including toilet
cleaner
nitric acid, sulfuric acid
sunscreens (various SPFs); tanning accelerator
antibacterial soap—several kinds; body washes, hand sanitizers; non anti-bact. soap
hair spray, bleach, ammonia, drain opener, vinegar
pepsin
Yellow #5, Blue #1 dyes; food coloring
Mannitol
Glucose, sucrose, fructose
Saline contact solutions
Yeast infection treatment

Vegetables, fruit et al.--A108C:

turnip leaves, root
kale
red cabbage
spinach
garlic
red leaf, iceberg, Romaine, Boston lettuce
tea tree oil
plain yogurt
vanilla
apple juice, lemon juice, cranberry juice, orange juice, lemonade
mushroom
apple jelly
Coke, Pepsi, Mt. Dew, Mello Yellow, Blue Haw. Punch, yellow & blue Gatorade,
yellow & blue Powerade
carbonated water, Evian, 2% milk
tuna,
honeydew

Also in A108C: LB & NA plates (for bacteria); SC and SD plates (for yeast)

Useful pages in the Lab Manual:

A-6 to A-11 Instructions for preparing written and oral reports on independent projects
C-5 Extraction of plant pigments
L113 web site Chromatography of ether-soluble plant pigments
L113 web site Chromatography of water-soluble plant pigments
C-12 Preparation of chloroplast suspension for Hill Reaction
C-12 to C-13 Hill reaction
L113 web site Preparation of crude peroxidase enzyme extract
L113 web site Standard assay for peroxidase
E-3 Simple *Drosophila* genetic map
D-10 to D-12 Dilution, plating and UV irradiation of yeast
L113 web site Lots of additional procedures provided