



# Deluxe Package

## 2-Liter & 500-mL Photobioreactors

### 2-Liter Photobioreactor (PBR) Parts

- A. 2-Liter Glass Reactor Jar
- B. Large Reactor Lid
- C. Flexible hose with preinstalled filter
- D. Air Lock
- E. Grommet for Air Lock (preinstalled on lid)
- F. Grommet Cap (preinstalled on lid)
- G. Metal Bulkhead (preinstalled on lid)
- H. Metal Air Tube with preinstalled Air Stone

### 500-mL Photobioreactor (PBR) Parts

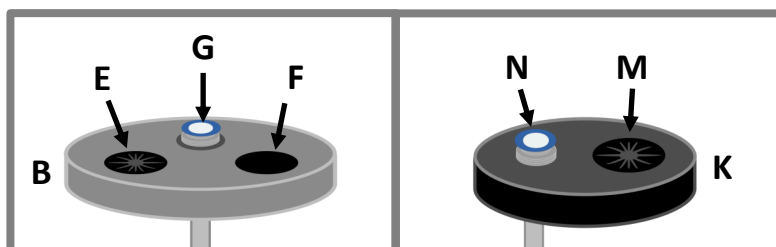
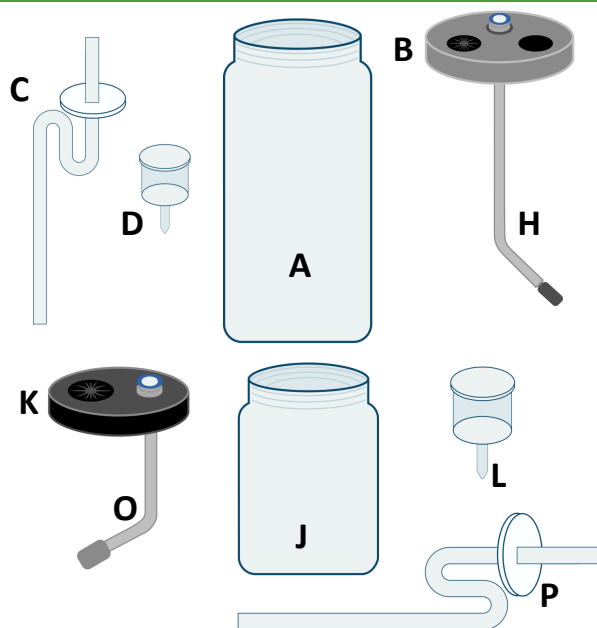
- J. 500-mL Glass Reactor Jar
- K. Small Reactor Lid (color may vary)
- L. Air Lock
- M. Grommet for Air Lock (preinstalled on lid)
- N. Metal Bulkhead (preinstalled on lid)
- O. Metal Air Tube with preinstalled Air Stone
- P. Flexible hose with preinstalled filter

### Also Included In Deluxe Package (Not Shown):

- \* Two (2) 1-Liter Bottles of Algal Culturing Media
- \* One (1) 50-mL Starter Culture
- \* Air pump
- \* Extra Grommets:
  - \* 1- Air Lock Grommet
  - \* 1- Grommet Cap
  - \* *Alternate-style Grommet available in refill pack (for use with user-supplied probes/equipment)*
- \* One (1) Extra Metal Air Tube with preinstalled Air Stone and cleaning brush for 2-Liter PBR
- \* One (1) Extra Metal Air Tube with preinstalled Air Stone and cleaning brush for 500-mL PBR
- \* 4 Extra Air Stones

### Photobioreactor Assembly

1. Remove all parts from box and inspect for any damages or missing items. Contact UTEX if there are any issues.
2. Wash both glass reactor jars (Parts A & J) and lids (Parts B & K) with 10% bleach solution (1 part bleach to 9 parts water), rinse and air dry.
3. Fill air locks (Parts D & L) to the fill line with distilled or filtered water, and insert into grommet on lid (do not force air lock).
4. Add starter culture and algal culturing media into glass reactor jar of your choice using a 1:5 ratio of algae to media (1 part algae to 4 parts media). Keep liquid at least 2 inches from the top.
5. Screw lid onto jar.
6. Attach short end of filter hose to the air pump, and attach the long end of filter hose to the bulkhead fitting on reactor lid by pushing tube into the blue slot. *To remove tube or air tube, depress blue slot while gently pulling tube out.*
7. Plug in air pump and place reactor in light or the RGB-LED Lighting Platform (sold separately).
8. Store extra parts and these instructions in supplied resealable bag for future use.



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