

# MEMBRANE STORAGE & SHIPPING

## BIOLOGICAL GROWTH ON MEMBRANES: STORAGE, SHIPPING, & SYSTEM SHUT-DOWN

### **Membrane Storage:**

- Store Membranes in a cool area out of direct sunlight. Membrane storage temperature limits are 22°F-113°F. Dry (new) elements can go below 22°F.
- Preserve in a solution of 2% AM-88 and 20% AM-16. This will not prevent freezing below 32°F, but the crystals are soft and the membrane is not damaged.
- Keep new elements in their original packaging.
- Examine the preservative in preserved elements every 3 months. If not clear, remove and re-preserve. The pH of the preservative should not drop below 3.
- Storage time of dry elements is unlimited.

### **Membrane Shipping:**

- Preserve the element in the plastic bag using the recommended procedure. Make sure the plastic bag does not leak and the element is properly identified.
- Make sure the preservative solution is correctly labeled.
- Protect the element package from physical damage.

### **System Shut-Down:**

- Clean the membranes in the system using the cleaning procedure.
- Circulate the preservative solution.
- Shut down the system and close valves to avoid air entering the system.
- Check preservative once a month.