INTENDED USE:
CryoCare is a method of preserving bacterial and other cultures for long periods avoiding freeze drying or daily culture transfers. CryoCare is a vial containing chemically treated porous beads in a cryopreservative fluid of TSB + glycerol with a hypertonic additive. Each bead serves as a carrier for the culture during storage.

PROCEDURE FOR PREPARATION:
1. Remove the cap, being careful not to contaminate the contents. Inoculate the CryoCare vial with young (18-24 hours) colonial growth of a pure culture of the organism being preserved to approximate a McFarland 3-4 standard, using a sterile loop. (optional method) Use a sterile pipette to harvest and emulsify the colonies into the CryoCare vial by using a squeezing action. The same pipette may then be used to extract the excess fluid. (step 3) Liquid cultures can be lightly centrifuged and the deposit used as above. (figure 1)
2. Cap the tube and invert 6 times. DO NOT VORTEX. (figure 2) If using no beads, cooked meat, or skim milk, go to step 4.
3. Let vial stand for 30 seconds. The organism will now be bound to the vial by using a squeezing action. The same pipette may then be used to extract the excess fluid. (step 3)
4. Record the culture details on the vial and store at minus 70°C. (see STORAGE PRIOR TO USE:)

STORAGE PRIOR TO USE:
Unused CryoCare may be stored at room temperature up to 30°C. Shelf life of frozen organisms is dependent upon freezer temperature and frequency of use and must be determined by each user by periodical testing. (see PRECAUTIONS, paragraph 3.)

PROCEDURE FOR USE - RECOVERY:
1. Remove the vial from the freezer.
2. If using vials without beads, scrape a little liquid from the top of the vial with a sterile loop or scraper then streak as in figure 6. Return the vial to the freezer quickly.
3. If using beads, carefully open the vial and remove a single bead with a sterile needle, forceps, or the special CryoCare hook available from KEY Scientific. (figure 5)
4. Rub the bead over solid medium (figure 6), streak from point of contact, or drop into appropriate growth broth. Some organisms perform better using the broth method. Beads should not be returned to the vial after removal.

NOTE: For COOKED MEAT, SKIM MILK, and NO BEAD CRYOCARE scrape liquid from the unthawed tube to use for streaking the plate. Do not defrost before using.

CryoCare HOOK-KSC4010- Sterilizable bent hook to remove the frozen bead. The strong shaft makes it easy to separate the beads.
CryoSafe- KSC18847- 12 well cold box keeps vials frozen 1 ½ hours at -15°C when taken from a 20°C freezer. May also be used for quick freezing on the counter.

REFERENCES
1. Medical Laboratory Sciences, 1985,42:289-290