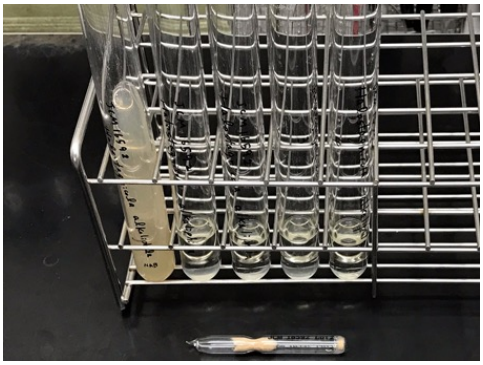
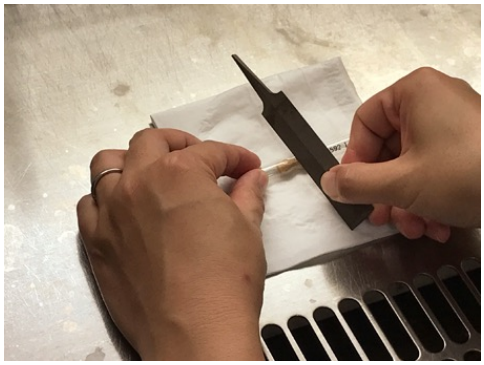
Revive from an L-dried ampoule of a haloarchaeal strain

This is to illustrate how strains of halophilic archaea preserved by the L-drying method (drying from a liquid-state) are reactivated in JCM. A small amount of cell-suspension is soaked in the skim milk plug (freeze-dried skim milk) of the ampoule and L-dried.

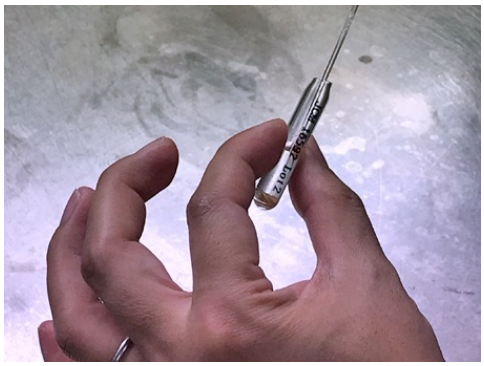


L-dried ampoule of a halophilic archaeon and culture media (agar slant and liquid culture) to reactivate it.



Make a file-cut at the neck of the ampoule and wipe with cotton wool containing 70% ethanol

Wrap the ampoule with a sterile cotton sheet and break it carefully at the neck. Then, remove the cotton plug from the ampoule.



Add 0.3-0.5 ml of the growth medium and slowly suspend the cells with skim milk powder in the growth medium

Using a Pasteur pipette, remove a few droplets of the cell-suspension onto the surface of the agar slant.

Inoculate the rest of the cell-suspension in the liquid culture tube No. 1. Then, serially diluted in the liquid culture tubes from No. 2 to No. 4. Incubate the inoculated cultures at the designated temperature.

On reviving from L-dried ampoule, prepare a couple of liquid culture tubes (5-10 ml each, to estimate the number of surviving cells and to avoid possible growth inhibition by the protect medium used for the L-drying process). If necessary, prepare agar slants or plates and incubate the (diluted) cell-suspension.

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