Handling of Cultures and Ampoules

Hints how to cultivate our microbial cultures

General recommendations are given on www.dsmz.de/catalogues/catalogue-microorganisms/culture-technology.html, including culturing under aerobic or anaerobic conditions, cultivation hints for organisms with particular requirements and a list of all media compositions. **Specific cultivation conditions** (medium, gas atmosphere, temperature) for each strain, whether delivered actively growing or freeze-dried, are given in the single strain entries of our www.dsmz.de/catalogues/catalogue-microorganisms.html (search for the DSM number). More information at www.dsmz.de/nc/catalogues/catalogue-microorganisms/faq.html.

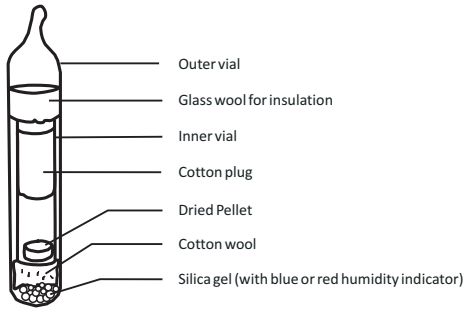
Cultures which were delivered actively growing on agar media or in liquid media

Transfer to fresh media given for that specific strain immediately after receipt. Incubate under the conditions given. The volume of fresh liquid media should not be higher than 10 times the volume of the inoculum.

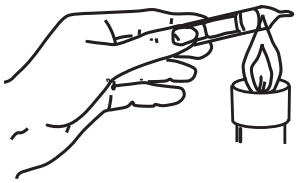
Opening of Ampoules and Rehydration of Dried Cultures

Videos may be regarded at www.dsmz.de/support/video-tutorials.html.

1. Remove the glass ampoule from the secondary packaging. Double vial preparation, sealed under vacuum:

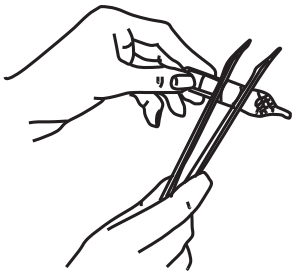


2. Wear protective glasses when opening ampoules! Heat the tip of the ampoule in a flame.



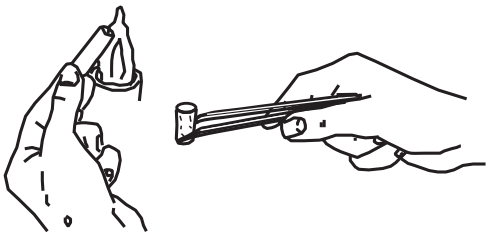
3. Place two or three drops of water onto the hot tip to crack the glass.

4. Carefully strike off the glass tip with an appropriate tool (e.g. forceps).



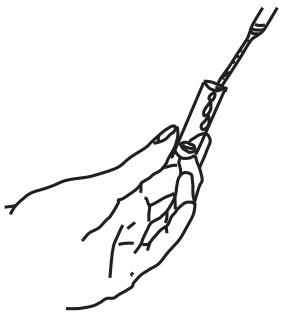
5. Remove the insulation material with forceps and take out the inner vial.

6. Lift the cotton plug using a forceps, remove it, keep it under sterile conditions and flame the top of the inner vial.



7. Add 0.5 ml of medium specified for the strain in the individual strain entry (see above). Replace the plug and allow the pellet to rehydrate for up to 30 minutes.

   Subsequent handling of **anaerobic** strains is described in our catalogue at > Culture Technology in a pdf-file and a video tutorial as well as in the specific strain entries. For all other strains proceed as follows.



8. Mix the content gently with an inoculation loop or with a Pasteur pipette. Transfer about half of the whole amount to a test tube with 5 ml of the recommended liquid medium, streak the other half onto a respective agar plate.

9. Incubate liquid and agar cultures under conditions specified for the strain.

10. Before discarding sterilize all the remains of the original ampoule.