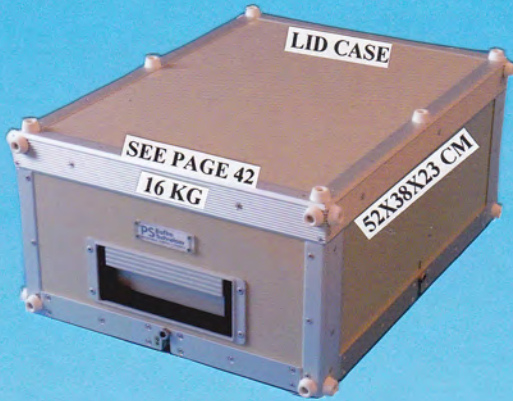


Culture Media Preparation Equipment



A fully equipped lid carrying case to produce culture media and to prepare broth bottles in a field laboratory

To be selfsupplier of culture media boosts flexibility, independency and capacity. It opens the door to complete microbiological studies:

- Culture media for any specific type of bacteria can be produced right on-site.
- Permits the use of original field water.
- There is no need to carry liquid broth.
- Fresh medium can be used, no storage required, no leftovers. Specially for large surveys or screening tests, it is difficult to foresee the number required.
- It is possible to undertake metabolic studies and medium optimization by changing nutrients and ingredients.
- If the Microbial Survey Instruments is used, the advantage of the 2 ml bottles and the incubator make the operation totally selfsufficient.

Experience shows that it is very difficult to produce a universal medium on which all SRB strains develop.

Often, the best approach is to use the existing knowledge, that is, if a medium has shown rapid growth (2-3 days on the first dilution bottle when population of 1000 units/ml is present); then, it is the one to be used.

PS Biofilm does not market culture media in fluid or dry form. For the customers of this equipment however, standard recipies for sulfate-reducing bacteria, general heterotrophic bacteria, iron-oxidizing bacteria and sulphur-oxidizing bacteria are presented in the users guide. In addition, ingredients to produce 1000-2 ml SRB bottles and 1000-2 ml GHB bottles are supplied with this equipment.

ITEM#303
CULTURE
MEDIA
PREPARATION
EQUIPMENT



**PRINCIPLE
OF OXYGEN-FREE FILLING**

One of the major changes introduced during filling of broth bottles is the absence of nitrogen blanketing and sparging.

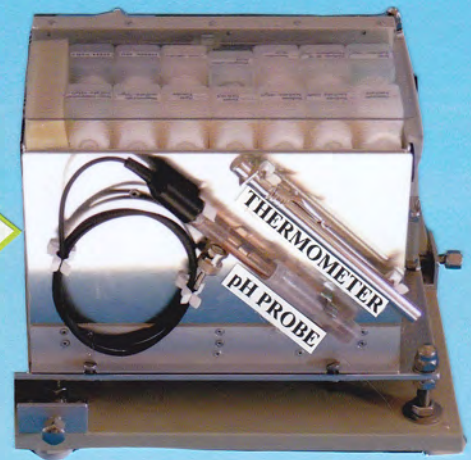
Anaerobic conditions are achieved by sterilization of the bottles with cap loose. After sterilization, the bottles are tighten with the gloves supplied while they are still hot. The vacuum resulting during cooling provides perfect anaerobic conditions. Such a change makes the procedure much easier, indeed, it is difficult to find nitrogen bottles in remote laboratory locations. The threaded cap of the 2 ml bottles makes such a procedure possible.

DRY SINGLE
INGREDIENTS
TO PRODUCE
1000-2 ML SRB
1000-2 ML GHB
BROTH BOTTLES

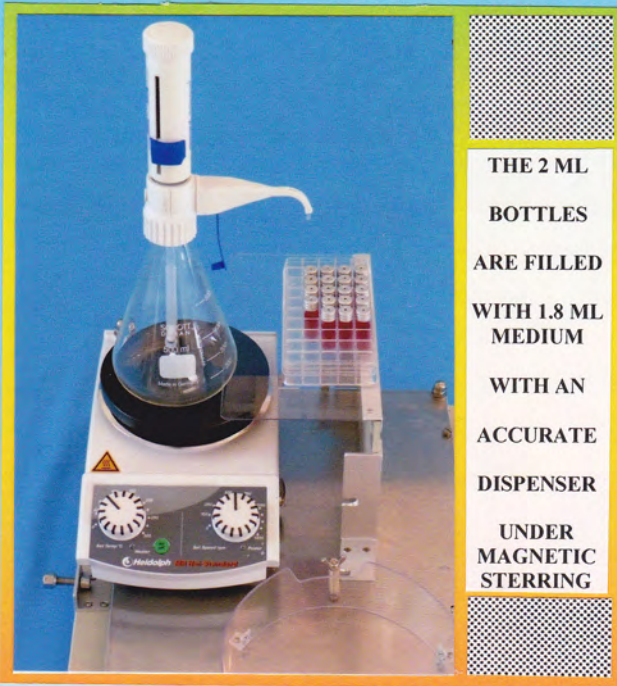
REAR
DRAWER
MODULE
FRONT
VIEW



REAR
DRAWER
MODULE
BACK
VIEW



The hot plate is mounted in the base of the lid case, it can be used without necessity of taking it out. The bottles are evenly distributed in a polycarbonat platform that fits into the pressure cooker. After sterilization the platform is taken out and caps are tighten with gloves while they are still hot. The vacuum generated makes it air free.



THE 2 ML
BOTTLES
ARE FILLED
WITH 1.8 ML
MEDIUM
WITH AN
ACCURATE
DISPENSER
UNDER
MAGNETIC
STERRING

**DETAILED PROCEDURE
IN THE USERS GUIDE**

- General instructions.
- How to prepare SRB culture medium.
 - Production of broth bottles for SRB.
 - Production of broth Bottles for GHB.

