CO_2GEN

Code: CD0025

Description
CO_2Gen is designed for the generation of a carbon dioxide-rich atmosphere within a gas jar. The paper sachet contains ascorbic acid which reacts with air to produce a level of approximately 6% carbon dioxide within a 2.5 litre gas jar such as the Oxoid AnaeroJar (AG0025). The final concentration of oxygen is 15%.

Components
10 CO_2Gen paper sachets, individually wrapped in foil
1 product leaflet

Materials Required but not Provided
2.5 litre gas jar (Oxoid AnaeroJar AG0025).

Precautions
This product is for *in vitro* use only. The CO_2Gen paper sachet will become active on contact with air. It is therefore essential that the paper sachet is placed in the jar and the jar sealed within one minute. The reaction of the ascorbic acid with oxygen is exothermic. However, the temperature of the CO_2Gen paper sachet will not exceed 65°C.

Storage
Store at 2-25°C. Under these conditions, the CO_2Gen sachets will retain their activity until the expiry date given on the outer box and on the foil wrap of the sachets.

Directions
1 Place inoculated media plates in a 2.5 litre gas jar. Do not use a 3.5 litre jar. Disposable plastic Petri dishes should be of the vented variety to aid gas transfer between the interior and exterior of the plates.
2 Tear open a CO_2Gen foil sachet at the tear-nick indicated. Remove the sachet from within.
3 Immediately place the paper sachet in the 2.5 litre gas jar. **N.B.** The paper sachet will become warm to the touch on exposure to air.
4 Seal the jar immediately. The time taken between opening the foil sachet and sealing the jar should not exceed 1 minute.
5 Incubate appropriately.
6 After the incubation period, remove the plates and examine for the presence of colonies. If the plates require re- incubation, a fresh CO_2Gen sachet must be used, following steps 2-5 described above.
7 After incubation, the exhausted CO_2Gen paper sachet should be sterilised and discarded with the non-hazardous laboratory waste.

Disposal

On removal from the jar after incubation, the CO_2Gen paper sachet will retain a small amount of activity and become warm. The sachets should be allowed to cool to room temperature prior to sterilisation and disposal with the non- hazardous laboratory waste.