



Instructions for Use

ANAEROGEN™ COMPACT

Cat. no. AN010C	AnaeroGen™ Compact	10 sachets/box
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INTENDED USE

AnaeroGen™ Compact is a simple system for the anaerobic incubation of up to four petri dishes or an identification panel.

SUMMARY

The system consists of a plastic pouch and a paper gas generating sachet. The paper sachet contains ascorbic acid and is activated carbon which react on contact with air. Oxygen is rapidly absorbed and carbon dioxide is produced. When the paper sachet is placed in a sealed plastic pouch, this reaction will create ideal atmospheric conditions for the growth of anaerobes. It proceeds with **no** evolution of hydrogen, and therefore does **not** require a catalyst. **No** addition of water is necessary to activate the reaction. This gives the system many advantages over the commonly used borohydride systems with increased safety and convenience.

When used as directed the AnaeroGen™ Compact sachet will reduce the oxygen content in the pouch to below 1% within 30 minutes. The resulting carbon dioxide content will be between 8% and 14%. The level of carbon dioxide will depend on how many plates are placed in the pouch. AnaeroGen™ Compact has been designed for use with 1-4 plates.

FORMULA

Ascorbic acid is the reactive component within each paper sachet.

STORAGE AND SHELF LIFE

Store at 2-25°C. Under these conditions, the AnaeroGen™ Compact sachets will retain their activity until the expiration date declared on the outer box and on the foil wrapped sachet. Products should not be used if there are any signs of deterioration (tears), or if the expiration date has passed. Protect from excessive heat and freezing.

The expiration dating on the product label applies to the product in its intact packaging when stored as directed. The product may be used and tested up to the expiration date on the product label and incubated for the recommended quality control incubation times.

The plates must be inoculated **immediately** after opening the AnaeroGRO™ pouch. After inoculation, the plates must be placed **immediately** into an anaerobic atmosphere (pouch, jar, or chamber) to ensure optimal growth of anaerobic bacteria.

Refer to the document "[Storage](#)" for more information.

PRECAUTIONS

This product may contain components of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not guarantee the absence of transmissible pathogenic agents. Therefore, it is recommended that these products be treated as potentially infectious, and handle observing the usual universal blood precautions. Do not ingest, inhale, or allow to come into contact with skin.

This product is for *in vitro* diagnostic use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions." The "Guidelines for Isolation Precautions" is available from the Centers for Disease Control and Prevention at www.cdc.gov/ncidod/dhqp/gl_isolation.html.

For additional information regarding specific precautions for the prevention of the transmission of all infectious agents from laboratory instruments and materials, and for recommendations for the management of exposure to infectious disease, refer to CLSI document M-29: *Protection of Laboratory Workers from Occupationally Acquired Infections: Approved Guideline*.

Sterilize all biohazard waste before disposal.

Refer to the document "[Precautions When Using Media](#)" for more information.

Refer to the document [SDS Search](#) instructions on the Hardy Diagnostics' website for more information.

PROCEDURE

Method of Use:

1. Place the inoculated media plates or identification panel in the plastic pouch provided. 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 an AnaeroGen™ Compact foil sachet at the tear-neck indicated. Remove the AnaeroGen™ Compact paper sachet from within.
3. Immediately place the AnaeroGen™ Compact paper sachet in the plastic pouch.

Note: The AnaeroGen™ Compact paper sachet will become warm to the touch on exposure to air.

4. Expel excess air from the plastic pouch. Seal the plastic pouch immediately with the AnaeroGen™ Compact Clip (Cat. no. AN005C) or equivalent.

Note: The time taken between opening the foil sachet and sealing the plastic pouch should not exceed 1 minute. Extended exposure will result in loss of reactivity, and full anaerobic conditions may not be achieved in the pouch.

5. Incubate appropriately.
6. After the incubation period remove the plates or ID panel and examine for the presence of colonies or biochemical reaction. If the plates require re-incubation then a fresh AnaeroGen™ Compact sachet must be used following steps 2-5 described above.

Note: The plates may be initially inspected through the transparent plastic pouch. If the bag is not opened, a fresh AnaeroGen™ Compact sachet is not required for re-incubation.

7. After incubation, the exhausted AnaeroGen™ Compact paper sachet and plastic pouch should be sterilized and discarded with the non-hazardous laboratory waste.

LIMITATIONS

It is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on colonies from pure culture for complete identification.

It is essential that the gas generating paper sachet be placed and sealed in the jar within one minute of its removal from the outer foil sachet. Extended exposure to air will result in loss of reactivity and full microaerophilic/anaerobic conditions may not be achieved.

Refer to the document "[Limitations of Procedures and Warranty](#)" for more information.

MATERIALS REQUIRED BUT NOT PROVIDED

AnaeroGen™ Compact Sealing Clips (Cat. no. AN005C)

Standard microbiological supplies and equipment such as loops, slides, staining supplies, other culture media, microscope, incinerator, incubators, seal bars or clips, as well as serological and biochemical reagents, are not provided.

QUALITY CONTROL

Hardy Diagnostics tests each lot of commercially manufactured media using appropriate quality control microorganisms and quality specifications as outlined on the Certificates of Analysis (CofA). The following organisms are routinely used for testing at Hardy Diagnostics:

Test Organisms	Reaction
<i>Clostridium novyii</i> ATCC® 9690	Growth
<i>Micrococcus luteus</i> ATCC® 9341	Growth

* Refer to the document "[Inoculation Procedures for Media QC](#)" for more information.

PHYSICAL APPEARANCE

AnaeroGen™ Compact should appear as white paper sachets individually packaged within a foil pouch.



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REFERENCES

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4. Tille, P., et al. *Bailey and Scott's Diagnostic Microbiology*, C.V. Mosby Company, St. Louis, MO.
5. Isenberg, H.D. *Clinical Microbiology Procedures Handbook*, Vol. I & II. American Society for Microbiology, Washington, D.C.
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7. Package Insert, Oxoid, Unipath Ltd., Wade Road, Basingtoke, Hampshire, RG24 8PW, England. March, 1997.

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AnaeroGen is a trademark of Oxoid.

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