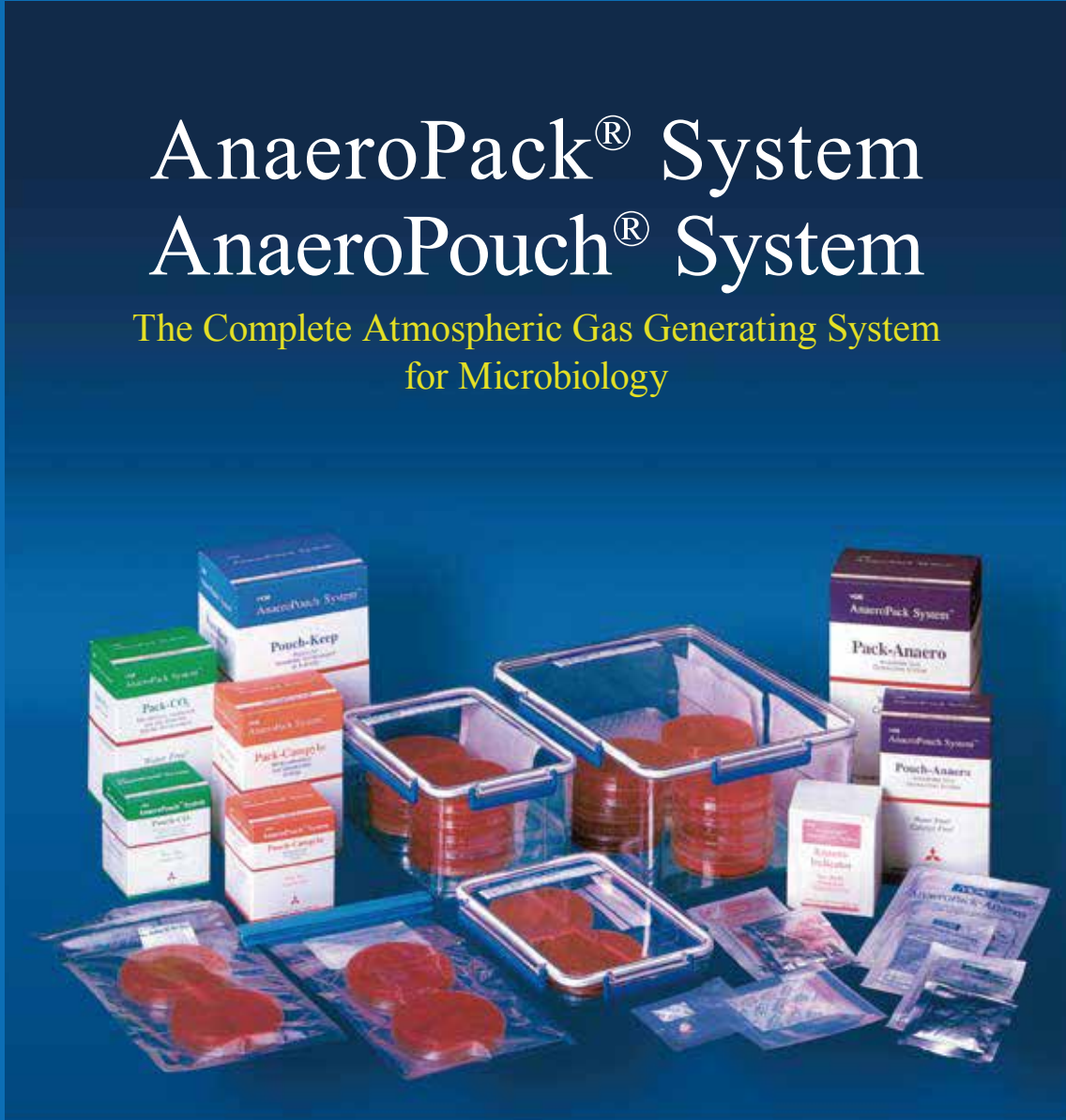




*Water Free! Catalyst Free!*

# AnaeroPack<sup>®</sup> System AnaeroPouch<sup>®</sup> System

The Complete Atmospheric Gas Generating System  
for Microbiology



Anaerobic cultivation

AnaeroPack<sup>®</sup>-Anaero  
AnaeroPouch<sup>®</sup>-Anaero

Microaerophilic cultivation

AnaeroPack<sup>®</sup>-MicroAero  
(for 2.5L, for 7L)  
AnaeroPouch<sup>®</sup>-MicroAero  
(for Pouch-Bag, for 0.4L)

CO<sub>2</sub> (capnophilic) cultivation

AnaeroPack<sup>®</sup>-CO<sub>2</sub>  
AnaeroPouch<sup>®</sup>-CO<sub>2</sub>

Medium preservation

AnaeroPouch<sup>®</sup>-Keep

▲ MITSUBISHI GAS CHEMICAL COMPANY, INC.

**Creative**  
CREATIVE LIFESCIENCES  
啟新生物科技

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24889 新北市新莊區新北產業園區五工五路21號  
www.cmp-micro.com

## Anaerobic cultivation

For the environment of less than 0.1% of oxygen, more than 15% of CO<sub>2</sub>

AnaeroPack®-Anaero  
AnaeroPouch®-Anaero

AnaeroPack-Anaero and AnaeroPouch-Anaero will support the growth of anaerobes such as *Clostridium* spp., *Prevotella* spp. and *Porphyromonas* species.



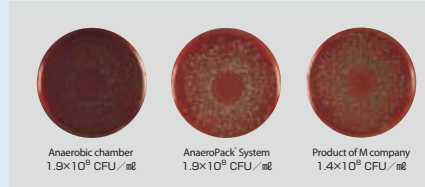
AnaeroPack®-Anaero



AnaeroPouch®-Anaero

### Cultivation Results

#### *Prevotella intermedia*

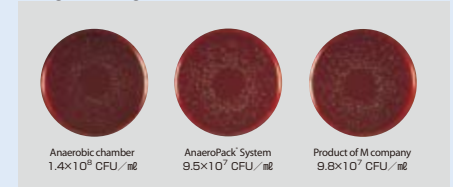


Anaerobic chamber  
1.9x10<sup>8</sup> CFU/m<sup>2</sup>

AnaeroPack System  
1.9x10<sup>8</sup> CFU/m<sup>2</sup>

Product of M company  
1.4x10<sup>8</sup> CFU/m<sup>2</sup>

#### *Finegoldia magna*

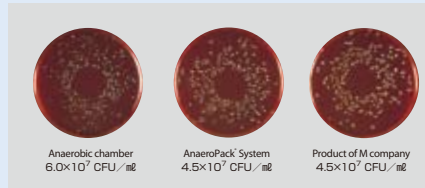


Anaerobic chamber  
1.4x10<sup>8</sup> CFU/m<sup>2</sup>

AnaeroPack System  
9.5x10<sup>7</sup> CFU/m<sup>2</sup>

Product of M company  
9.8x10<sup>7</sup> CFU/m<sup>2</sup>

#### *Fusobacterium necrophorum*

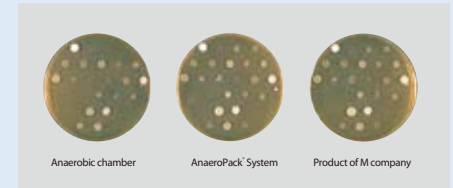


Anaerobic chamber  
6.0x10<sup>7</sup> CFU/m<sup>2</sup>

AnaeroPack System  
4.5x10<sup>7</sup> CFU/m<sup>2</sup>

Product of M company  
4.5x10<sup>7</sup> CFU/m<sup>2</sup>

#### OFLX 0.05 µg/ml



Anaerobic chamber

AnaeroPack System

Product of M company

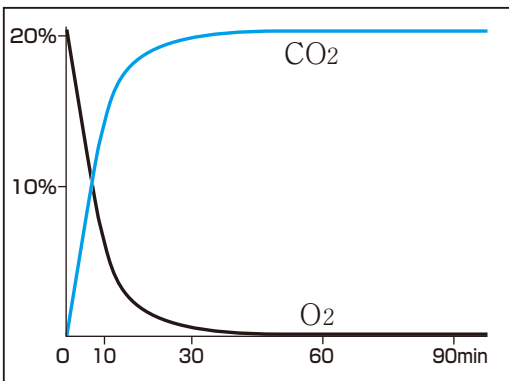
\*CO<sub>2</sub> concentration of anaerobic chamber is 10%

(Photos: Clinical Laboratory of Kanto Teishin Hospital, BMI Inc.)

	2.5L	Rect. Jar 7L	0.4L	W-Zip Pouch or Pouch-Bag
AnaeroPack <sup>+</sup> -Anaero	1 sachet ※	3 sachets		
AnaeroPouch <sup>+</sup> -Anaero			1 sachet	1 sachet

※AnaeroPack-Anaero-3.5L is also available.

### Atmospheric profile by AnaeroPack®-Anaero



## Medium preservation for Pre-Reduced Media

AnaeroPouch®-Keep

For up to 6 x φ90mm plates.

- For the preservation with Pouch-Bag
- Expel the air before sealing with a clip.
- Cannot be used with Rect. Jars



### Example of cultivation using pouch



Note (Common to Anaero, MicroAero and CO<sub>2</sub>): By tearing open the aluminum sachets, activation will occur immediately on contact with air. Seal the Rect. Jar or Pouch immediately. The time between opening the sachet and sealing should not exceed one minute (for Rect. Jars) or 30 seconds (for Pouches).

## Microaerophilic cultivation

For the environment of **O<sub>2</sub> 6-12% and CO<sub>2</sub> 5-8%**

**AnaeroPack®-MicroAero / AnaeroPack®-MicroAero-7L AnaeroPouch®-MicroAero (for Pouch-Bag / for Rect. Jar 0.4L)**

AnaeroPack-MicroAero and AnaeroPouch-MicroAero will support the growth of *Campylobacter* and *Helicobacter*.

Amount of generated CO<sub>2</sub> will be slightly less than that of absorbed O<sub>2</sub>. So the jar lids might be tighter to open because of the lower pressure.



AnaeroPack®-MicroAero



AnaeroPack®-MicroAero-7L

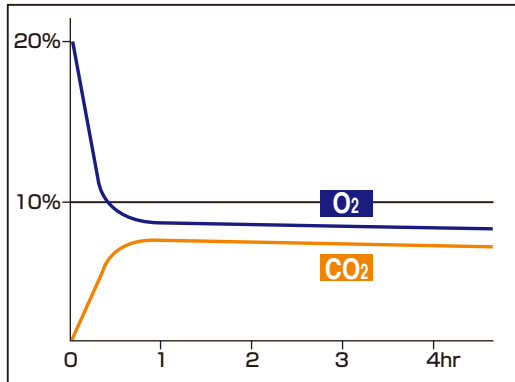


AnaeroPouch®-MicroAero for Pouch-Bag



AnaeroPouch®-MicroAero for Rect. Jar 0.4L

## Atmospheric profile by AnaeroPack®-MicroAero



	Rect. Jar			W-Zip Pouch or Pouch-Bag
	2.5L	7L	0.4L	
AnaeroPack®-MicroAero	1 sachet			
AnaeroPack®-MicroAero-7L		1 sachet		
AnaeroPouch®-MicroAero	for Pouch-Bag			1 sachet ※
	for Rect. Jar 0.4L		1 sachet	

※Please put 2 plates. For the culture of only one plate, please add one non-inoculated plate to maintain the proper environment inside the bag.

## CO<sub>2</sub> (capnophilic) cultivation

For the cultivation at approximately **5% of CO<sub>2</sub>**

**AnaeroPack®-CO<sub>2</sub> AnaeroPouch®-CO<sub>2</sub>**

Will support the growth of *Hemophilus* spp. and *Neisseria* species.

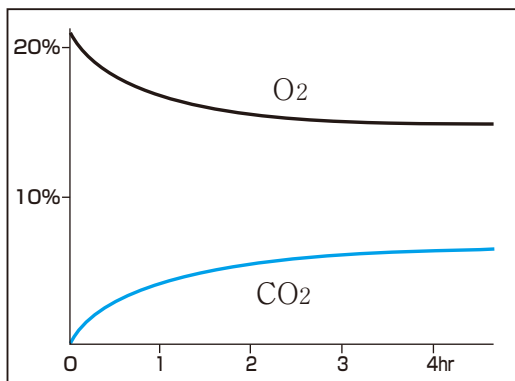


AnaeroPack®-CO<sub>2</sub>



AnaeroPouch®-CO<sub>2</sub>

## Atmospheric profile by AnaeroPack®-CO<sub>2</sub>



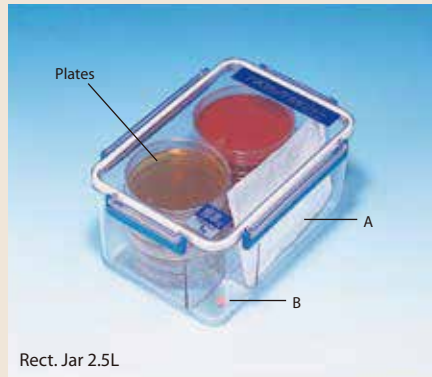
	Rect. Jar			W-Zip Pouch or Pouch-Bag
	2.5L	7L	0.4L	
AnaeroPack®-CO <sub>2</sub>	1 sachet	3 sachets		
AnaeroPouch®-CO <sub>2</sub>			1 sachet	1 sachet ※

※Please put 2 plates. For the culture of only one plate, please add one non-inoculated plate to maintain the proper environment inside the bag.

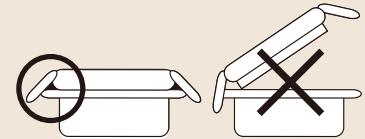
## Rectangular Jars

**Both round and square culture plates can be held. Stackable. You can maximize the incubation space.**

- Only AnaeroPack can be used for the Rect. Jar. Other companies' gas generators with different reaction mechanism cannot be used.
- Sometimes it may require power to open the lid because of the lower pressure by the solution of generated CO<sub>2</sub> in medium. In that case, take one of the corners of the lid and pull with fingers. Do not pull the latches to open the lid.
- Cannot be used for thermophilic cultivation.
- Not autoclavable.
- Latches can be broken unless the jar is placed squarely over the jar. To close the lid, close the opposing latches simultaneously. Do not try to close the latches one at a time (See figure).



- A : Compartment for sachet(s)  
 B : Compartment for Anaero-Indicator (anaerobes) or water to moisten (microaerophiles)  
 ★ Lids and silicon seals are available as parts.



Product	Inner dimension (mm)	Volume	Capacity
Rect. Jar 2.5L	W135×L197×H95	2.5 liter	12 petri dishes or 6 rectangular dishes
Rect. Jar 7L	W213×L280×H112	7 liter	42 petri dishes or 28 rectangular dishes
Rect. Jar 0.4L	W135×L197×H18	0.4 liter	2 petri dishes or 1 rectangular plate

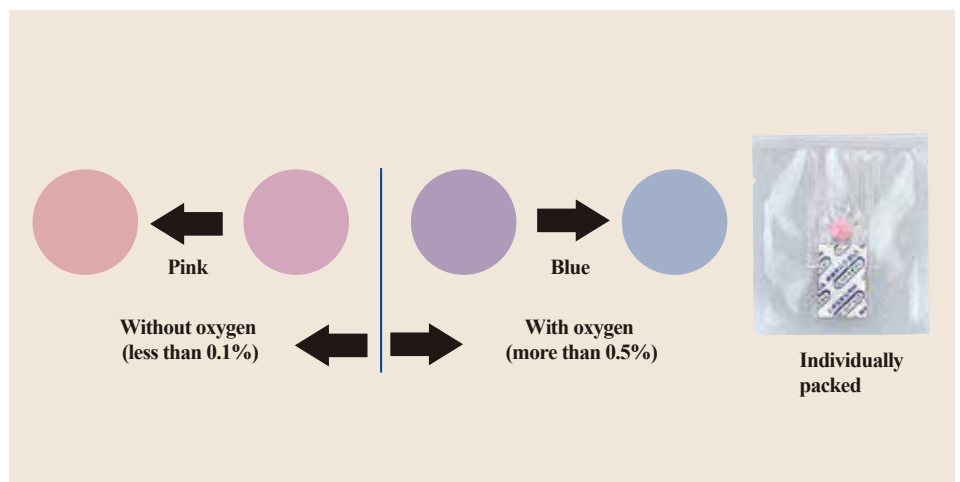
■ Heat and cold resistance of the materials of jars: maximum 140°C and minimum -30°C  
 These products are outside of the certified scope of the ISO9001, as they are not manufactured by MGC.

## Anaero-Indicator

**Presence of oxygen can be checked by its color change**

**SHOULD BE REFRIGERATED\***

- There are pinholes on the film. Its color changes by the come-and-go of O<sub>2</sub> through the pinholes. Use as it is and do not take pills from the film.
- Though the color change is reversible, its sensitivity will go down if used repeatedly. Consider as single-use.



**\*The RT Anaero-Indicator, which needs no refrigeration is also available.**

- Expiry of product is mentioned on each aluminum sachets or retail boxes.

## DISPOSAL

To discard unused products, open the aluminum sachet(s) and spread them on lab bench for about 30 minutes by not piling them. Discard after they become cool. Used products may retain small amount of reactivity. Discard after they become cool. Do not autoclave them when they are pyretic. Aluminum sachet consists of plastic film which contains aluminum. Paper sachet consists of plastic film which contains paper. Granule contains activated carbon. Obey the instructions of your local authority, if any.

- Design and specification of the products mentioned on this brochure are subject to change without notice.

▲ MITSUBISHI GAS CHEMICAL COMPANY, INC.