Anaerobic jars



schuett biotec.de

## For the cultivation of anaerobic and microaerophilic microorganisms in a defined and rapidly generated gas atmosphere.

Break-proof and non-aging jars made of robust stainless steel.

Transparent jars made of polycarbonate allow for optimum monitoring of colony growth during incubation process.

The lids are made of UV-resistant plastic or transparent polycarbonate, equipped with two corner valves incl. chemical-resistant tube clips for flushing and vacuum hoses (5 mm inner  $\emptyset$ ) and with manometer for exact control of the vacuum or overpressure (-1 to +0.2 bar).

Lids as custom-made versions, e.g. made of special material or equipped for high temperatures, without valves/manometer etc. are available on request.

Optional racks for various Petri dishes, multiwell plates or test tubes available.

For comfortable operation, the Petri dish racks are equipped with special holders for GasPack-Kits.

High-quality equipment, various models – see Technical Data for more details.

# Optimum atmosphere

### Three methods for reaching the required gas atmosphere.

After inoculation, Petri dishes or test tubes are loaded in the corresponding optional rack and afterwards exposed to anaerobic atmosphere.

The most economic method without any chemical accessories: Evacuating the jars by using a vacuum pump and filling it with the required gas (e.g. nitrogen).

In addition, it is possible to apply the method of flushing the Anaerobic jars for 5 minutes with gas.

As an alternative, the anaerobic conditions may be reached by using chemical anaerobe systems (GasPack-Kits).

For anaerobe, microaerophilic or  $CO_2$  atmosphere. GasPack-Kits for operation without adding water, without catalyst, no  $H_2$ -production.

Requested quantities of bags for different types of Anaerobic jars:

- "small" 1 bag - "large" 2 bags - "standard" 1 bag - "crystal" 1 bag - "eco" 1 bag

## & Catalysts

### Anaerobiosis indicator test and catalyst bags.

For use of GasPack-Kits "anaerobic" we offer corresponding indicator tests for monitoring the reached anaerobic atmosphere.

Anaerobic jar "eco" has been especially designed for operation with GasPack-Kits. The lid is equipped with a ventilation screw as well as a clip for holding the indicator test.

The indicator tests are moistened and placed in the clip for incubation together with the Petri dishes. As soon as the anaerobic conditions are reached, the indicator test decolours.

If an atmosphere providing hydrogen production is requested, we may offer corresponding safetycatalysts in bags made of stainless steel wire.

For reaching anaerobic atmosphere by help of hydrogen, we recommend threefold evacuation and filling with nitrogen. After the third filling procedure, 5 % hydrogen may be filled into the Anaerobic jar.

Dimension Material Inner diam. Jar/ x Height (mm) Lid Capacity (Liter) Fittings



Anaerobic jar "small"

**For up to** 10 Petri dishes Ø 60-100 mm 120 x 170 2 Liters Stainless steel/ Plastic (black) 2 corner valves 1 manometer

> racks "small" "test tubes"

Suitable



Anaerobic jar "large"

For up to 15 Petri dishes Ø 60-150 mm 175 x 260 6 Liters Stainless steel/ Plastic (black)

2 corner valves 1 manometer

Suitable racks "small" "standard" "150" "micro"

"3x60" "test tubes"



Anaerobic jar "standard"

**For up to**15 Petri dishes
Ø 60-100 mm

120 x 270 3 Liters Stainless steel/ Plastic (black) 2 corner valves 1 manometer

Suitable
racks
"small"
"standard"
"test tubes"



Anaerobic jar "eco"

**For up to** 15 Petri dishes Ø 60-100 mm 120 x 270 3 Liters Stainless steel/ Polycarbonate (PC, transparent) Ventilation screw

Suitable racks "small"

"standard" "test tubes"

Suitable

racks

"small"

"standard" "test tubes"



Anaerobic jar "crystal"

120 x 270 3 Liters Polycarbonate (PC, transparent)

2 corner valves 1 manometer

For up to
15 Petri dishes
Ø 60-100 mm

All Anaerobic jars are suitable for evacuating and filling with gas as well as flushing with gas for 5 minutes and chemical gas production with GasPack-Kits (Anaerobic jar "eco" is <u>only</u> suitable for chemical gas production).



Anaerobic jar "standard" with Petri dish rack "standard"



Anaerobic jar "crystal" with Petri dish rack "standard", loaded with GasPack and catalyst (optional)

Anaerobic jar "small" Anaerobic jar "small" Anaerobic jar "large" for up to 15 Petri dishes Ø 60-100 mm  Anaerobic jar "standard" Anaerobic jar "coc" Anaerobic jar "coc" Anaerobic jar "crystal" Anaerobic jar "scoc" Anaerobic jar "standard" Anaerobic jar "scoc" Anaerobic jar "standard" Anaerobic jar "scoc" Anaerobic jar "scoc" Anaerobic jar "standard" Anaerobic jar "scoc" Anaerobic jar "scoc" Anaerobic jar "standard" Anaerobic jar "standard" Anaerobic jar "scoc" Anaerobic jar "standard" Ana		0.4
for up to $10$ Petri dishes $\emptyset$ 60-100 mm  Anaerobic jar "large"  3.380 102 for up to 15 Petri dishes $\emptyset$ 60-150 mm  Anaerobic jar "standard" for up to 15 Petri dishes $\emptyset$ 60-100 mm  Anaerobic jar "eco"  3.380 502 for up to 15 Petri dishes $\emptyset$ 60-100 mm  Anaerobic jar "crystal"  3.380 902 for up to 15 Petri dishes $\emptyset$ 60-100 mm  Anaerobic jar "crystal"  3.380 902 for up to 15 Petri dishes $\emptyset$ 60-100 mm  Accessories  Petri dish rack "small"  3.385 102 or up to 10 Petri dishes $\emptyset$ 60-100 mm  Petri dish rack "standard"  for up to 15 Petri dishes $\emptyset$ 60-100 mm  Petri dish rack "standard"  for up to 15 Petri dishes $\emptyset$ 60-100 mm  Petri dish rack "stondard"  for up to 15 Petri dishes $\emptyset$ 60-150 mm  Petri dish rack "sof0"  for up to 45 Petri dishes $\emptyset$ 60 mm  Multiwell plate rack "micro"  for all tube rack "test tubes"  for 9 test tubes up to $\emptyset$ 18 mm  GasPack-Kit "anaerobic"  for oxygen free atmosphere in approx. 30 min,  with < 1 % $O_2$ and 9-13 % $CO_2$ ,  Active reagent: ascorbic acid 1 bag = 3.5 1 capacity  (qty=10 bags)  GasPack-Kit "CO_2"  3.880 400  for microaerophilic atmosphere 1 bag = 3.5 1 capacity  (qty=10 bags)  GasPack-Kit "incroaerophil"  3.880 500  for microaerophilic atmosphere 1 bag = 3.5 1 capacity  (qty=10 bags)  GasPack-Kit microaerophil'  for microaerophilic atmosphere 1 bag = 3.5 1 capacity  (qty=10 bags)  GasPack-Kit microaerophil'  Anaerobiosis indicator test  3.880 600  (qty=100 strips)  Safety Catalyst Set	Ordering information	Cat-No.
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Petri dish rack "3x60"for up to $45$ Petri dishes $\emptyset$ 60 mmMultiwell plate rack "micro" $3.385$ 502for multiwell plates $3.385$ 502Test tube rack "test tubes" $3.385$ 602for 9 test tubes up to $\emptyset$ 18 mm $3.880$ 300GasPack-Kit "anaerobic" $3.880$ 300for oxygen free atmosphere in approx. 30 min, with $< 1 \% 0_2$ and $9-13 \% C0_2$ , Active reagent: ascorbic acid $3.880$ 400 $1 \text{ bag} = 3.5 \text{ I capacity}$ (qty=10 bags) $3.880$ 400GasPack-Kit "CO2" $3.880$ 400for $CO_2$ atmosphere in $60$ -90 min, with approx. $15 \% 0_2$ and approx. $10 \% C0_2$ $3.880$ 500 $1 \text{ bag} = 2.5 \text{ I capacity}$ (qty=10 bags) $3.880$ 500GasPack-Kit "microaerophil" for microaerophilic atmosphere $1 \text{ bag} = 3.5 \text{ I capacity}$ (qty=10 bags) $3.880$ 600Anaerobiosis indicator test (qty=100 strips) $3.880$ 700		0.000 000
for up to 45 Petri dishes $\emptyset$ 60 mm  Multiwell plate rack "micro"  for multiwell plates  Test tube rack "test tubes"  for 9 test tubes up to $\emptyset$ 18 mm   GasPack-Kit "anaerobic"  for oxygen free atmosphere in approx. 30 min,  with < 1 % $0_2$ and $9$ -13 % $C0_2$ ,  Active reagent: ascorbic acid  1 bag = 3.5 I capacity  (qty=10 bags)  GasPack-Kit "CO2"  for $C0_2$ atmosphere in 60-90 min,  with approx. 15 % $0_2$ and approx. 10 % $C0_2$ 1 bag = 2.5 I capacity  (qty=10 bags)  GasPack-Kit "microaerophil"  for microaerophilic atmosphere  1 bag = 3.5 I capacity  (qty=10 bags)  Anaerobiosis indicator test  (qty=100 strips)  Safety Catalyst Set  3.880 700		3,385 402
Multiwell plate rack "micro" for multiwell plates  Test tube rack "test tubes" for 9 test tubes up to Ø 18 mm  GasPack-Kit "anaerobic" for oxygen free atmosphere in approx. 30 min, with < 1 % O2 and 9-13 % CO2, Active reagent: ascorbic acid 1 bag = 3.5   capacity (qty=10 bags)  GasPack-Kit "CO2" for CO2 atmosphere in 60-90 min, with approx. 15 % O2 and approx. 10 % CO2 1 bag = 2.5   capacity (qty=10 bags)  GasPack-Kit "microaerophil" for microaerophilic atmosphere 1 bag = 3.5   capacity (qty=10 bags)  Anaerobiosis indicator test (qty=100 strips)  Safety Catalyst Set  3.880 700		0.000 .02
for multiwell plates  Test tube rack "test tubes" for 9 test tubes up to $\emptyset$ 18 mm  GasPack-Kit "anaerobic" for oxygen free atmosphere in approx. 30 min, with < 1 % $O_2$ and 9-13 % $CO_2$ , Active reagent: ascorbic acid 1 bag = 3.5   capacity (qty=10 bags)  GasPack-Kit "CO <sub>2</sub> " 3.880 400 for $CO_2$ atmosphere in 60-90 min, with approx. 15 % $O_2$ and approx. 10 % $CO_2$ 1 bag = 2.5   capacity (qty=10 bags)  GasPack-Kit "microaerophil" for microaerophilic atmosphere 1 bag = 3.5   capacity (qty=10 bags)  Anaerobiosis indicator test (qty=100 strips)  Safety Catalyst Set  3.880 700		3.385 502
Test tube rack "test tubes" for 9 test tubes up to $\emptyset$ 18 mm  GasPack-Kit "anaerobic" for oxygen free atmosphere in approx. 30 min, with $< 1 \% O_2$ and 9-13 % $CO_2$ , Active reagent: ascorbic acid 1 bag = 3.5 I capacity (qty=10 bags)  GasPack-Kit "CO2" 3.880 400 for $CO_2$ atmosphere in 60-90 min, with approx. 15 % $O_2$ and approx. 10 % $CO_2$ 1 bag = 2.5 I capacity (qty=10 bags)  GasPack-Kit "microaerophil" 3.880 500 for microaerophilic atmosphere 1 bag = 3.5 I capacity (qty=10 bags)  Anaerobiosis indicator test (qty=100 strips)  Safety Catalyst Set  3.880 700		0.000 002
for 9 test tubes up to $\emptyset$ 18 mm  GasPack-Kit "anaerobic" for oxygen free atmosphere in approx. 30 min, with < 1 % $O_2$ and 9-13 % $CO_2$ , Active reagent: ascorbic acid 1 bag = 3.5   capacity (qty=10 bags)  GasPack-Kit "CO2" for $CO_2$ atmosphere in 60-90 min, with approx. 15 % $O_2$ and approx. 10 % $CO_2$ 1 bag = 2.5   capacity (qty=10 bags)  GasPack-Kit "microaerophil" Jase = 3.5   capacity (qty=10 bags)  Anaerobiosis indicator test (qty=100 strips)  Safety Catalyst Set  3.880 700		3 385 602
GasPack-Kit "anaerobic"3.880 300for oxygen free atmosphere in approx. $30 \text{ min}$ , with $< 1 \% O_2$ and $9$ - $13 \% CO_2$ , Active reagent: ascorbic acid $1 \text{ bag} = 3.5 \text{ l capacity}$ ( $qty=10 \text{ bags}$ )3.880 400GasPack-Kit "CO2"3.880 400for $CO_2$ atmosphere in $60$ - $90 \text{ min}$ , with approx. $15 \% O_2$ and approx. $10 \% CO_2$ $1 \text{ bag} = 2.5 \text{ l capacity}$ ( $qty=10 \text{ bags}$ )3.880 500GasPack-Kit "microaerophil" for microaerophilic atmosphere $1 \text{ bag} = 3.5 \text{ l capacity}$ ( $qty=10 \text{ bags}$ )3.880 600Anaerobiosis indicator test ( $qty=100 \text{ strips}$ )3.880 700		0.000 002
for oxygen free atmosphere in approx. $30 \text{ min}$ , with $< 1 \% O_2$ and $9\text{-}13 \% CO_2$ , Active reagent: ascorbic acid 1 bag = $3.5 \text{ l}$ capacity (qty= $10 \text{ bags}$ )  GasPack-Kit "CO2"  for $CO_2$ atmosphere in $60\text{-}90 \text{ min}$ , with approx. $15 \% O_2$ and approx. $10 \% CO_2$ 1 bag = $2.5 \text{ l}$ capacity (qty= $10 \text{ bags}$ )  GasPack-Kit "microaerophil"  for microaerophilic atmosphere 1 bag = $3.5 \text{ l}$ capacity (qty= $10 \text{ bags}$ )  Anaerobiosis indicator test (qty= $100 \text{ strips}$ )  Safety Catalyst Set  3.880 700	Tot 3 test tables up to 10 mm	
for oxygen free atmosphere in approx. $30 \text{ min}$ , with $< 1 \% O_2$ and $9\text{-}13 \% CO_2$ , Active reagent: ascorbic acid 1 bag = $3.5 \text{ l}$ capacity (qty= $10 \text{ bags}$ )  GasPack-Kit "CO2"  for $CO_2$ atmosphere in $60\text{-}90 \text{ min}$ , with approx. $15 \% O_2$ and approx. $10 \% CO_2$ 1 bag = $2.5 \text{ l}$ capacity (qty= $10 \text{ bags}$ )  GasPack-Kit "microaerophil"  for microaerophilic atmosphere 1 bag = $3.5 \text{ l}$ capacity (qty= $10 \text{ bags}$ )  Anaerobiosis indicator test (qty= $100 \text{ strips}$ )  Safety Catalyst Set  3.880 700	GasPack-Kit "anaerobic"	3 880 300
with $<$ 1 % $O_2$ and 9-13 % $CO_2$ , Active reagent: ascorbic acid 1 bag = 3.5 I capacity (qty=10 bags)  GasPack-Kit "CO2" 50 Jamosphere in 60-90 min, with approx. 15 % $O_2$ and approx. 10 % $CO_2$ 1 bag = 2.5 I capacity (qty=10 bags)  GasPack-Kit "microaerophil" 50 Jamosphere 51 bag = 3.5 I capacity (qty=10 bags)  Anaerobiosis indicator test (qty=100 strips)  Safety Catalyst Set  3.880 700		0.000 000
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(qty=10 bags)         Anaerobiosis indicator test       3.880 600         (qty=100 strips)         Safety Catalyst Set       3.880 700	·	
Anaerobiosis indicator test         3.880 600           (qty=100 strips)         Safety Catalyst Set         3.880 700		
(qty=100 strips) Safety Catalyst Set 3.880 700		
Safety Catalyst Set 3.880 700		3.880 600
• •		
(qty=5 bags)	Safety Catalyst Set	<i>3.880 700</i>
	(qty=5 bags)	



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