Anaerobic jars

Flexible and Robust

schuett-biotec.de

Anaerobic jars

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 Ø) 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*

Indicator tests & 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 safety-catalysts 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.

Technical Data

	Dimension Inner diam. x Height (mm) Capacity (Liter)	Material Jar/ Lid	Fittings	
	● ***Anaerobic jar "small"***	*120 x 170 2 Liters*	*Stainless steel/ Plastic (black)*	*2 corner valves 1 manometer*	***Suitable racks*** *"small" "test tubes"*
	For up to *10 Petri dishes Ø 60-100 mm*				
	● ***Anaerobic jar "large"***	*175 x 260 6 Liters*	*Stainless steel/ Plastic (black)*	*2 corner valves 1 manometer*	***Suitable racks*** *"small" "standard" "150" "micro" "3x60" "test tubes"*
	For up to *15 Petri dishes Ø 60-150 mm*				
	● ***Anaerobic jar "standard"***	*120 x 270 3 Liters*	*Stainless steel/ Plastic (black)*	*2 corner valves 1 manometer*	***Suitable racks*** *"small" "standard" "test tubes"*
	For up to *15 Petri dishes Ø 60-100 mm*				
	● ***Anaerobic jar "eco"***	*120 x 270 3 Liters*	*Stainless steel/ Polycarbonate (PC, transparent)*	*Ventilation screw*	***Suitable racks*** *"small" "standard" "test tubes"*
	For up to *15 Petri dishes Ø 60-100 mm*				
	● ***Anaerobic jar "crystal"***	*120 x 270 3 Liters*	*Polycarbonate (PC, transparent)*	*2 corner valves 1 manometer*	***Suitable racks*** *"small" "standard" "test tubes"*
	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).

Data and Facts

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

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

Ordering information	Cat.-No.
Anaerobic jar "small" *for up to 10 Petri dishes Ø 60-100 mm*	**3.380 202**
Anaerobic jar "large" *for up to 15 Petri dishes Ø 60-150 mm*	**3.380 102**
Anaerobic jar "standard" *for up to 15 Petri dishes Ø 60-100 mm*	**3.380 302**
Anaerobic jar "eco" *for up to 15 Petri dishes Ø 60-100 mm*	**3.380 502**
Anaerobic jar "crystal" *for up to 15 Petri dishes Ø 60-100 mm*	**3.380 902**

Accessories	
Petri dish rack "small" *or up to 10 Petri dishes Ø 60-100 mmm*	**3.385 102**
Petri dish rack "standard" *for up to 15 Petri dishes Ø 60-100 mm*	**3.385 202**
Petri dish rack "150" *for up to 15 Petri dishes Ø 60-150 mm*	**3.385 302**
Petri dish rack "3x60" *for up to 45 Petri dishes Ø 60 mm*	**3.385 402**
Multiwell plate rack "micro" *for multiwell plates*	**3.385 502**
Test tube rack "test tubes" *for 9 test tubes up to Ø 18 mm*	**3.385 602**
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 l capacity* *(qty=10 bags)*	**3.880 300**
GasPack-Kit "CO_2" *for CO_2 atmosphere in 60-90 min, with approx. 15 % O_2 and approx. 10 % CO_2* *1 bag = 2.5 l capacity* *(qty=10 bags)*	**3.880 400**
GasPack-Kit "microaerophil" *for microaerophilic atmosphere* *1 bag = 3.5 l capacity* *(qty=10 bags)*	**3.880 500**
Anaerobiosis indicator test *(qty=100 strips)*	**3.880 600**
Safety Catalyst Set *(qty=5 bags)*	**3.880 700**

schuett-biotec.de
Rudolf-Wissell-Straße 13, D-37079 Göttingen, Germany
Fon +49 (0) 551/5 04 10-0, Fax +49 (0) 551/5 04 10-99
info@schuett-biotec.de
www.schuett-biotec.de