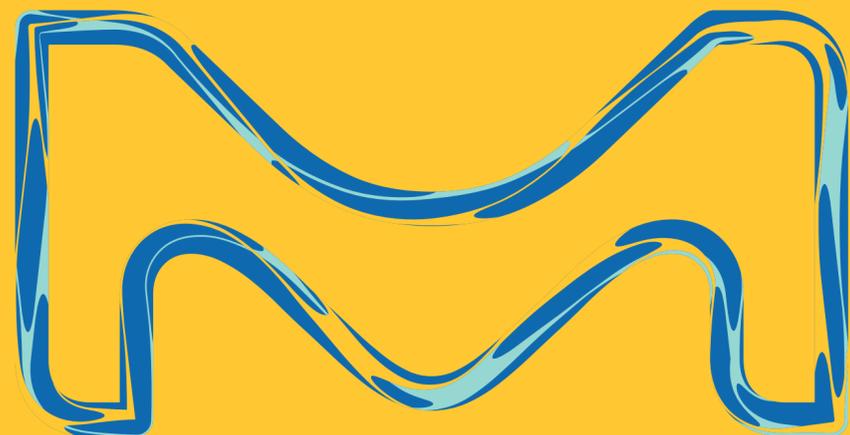


MERCK

THE SAFETY SENTINELS

Environmental Monitoring Solutions
for Pharmaceutical Industry



The life science business of Merck operates
as MilliporeSigma in the U.S. and Canada.

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

THE SAFETY SENTINELS



INTRO



APPLICATIONS



**CLEANROOM
GRADES**



SERVICE

CONTACT



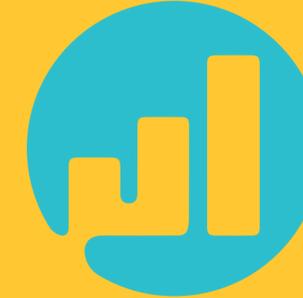
THE SAFETY SENTINELS



INTRO



APPLICATIONS



**CLEANROOM
GRADES**



SERVICE

Surface & Personnel Monitoring

Passive Air Monitoring

Active Viable Air Monitoring

Compressed Gas Monitoring

Aseptic Process Simulation

CONTACT



THE SAFETY SENTINELS

MERCK



INTRO



APPLICATIONS



CLEANROOM
GRADES



SERVICE

Cleanroom Grade A/B

Cleanroom Grade C/D

Isolator / RABS

CONTACT



ON GUARD



GMP compliant solutions for process monitoring in pharmaceutical manufacturing

Safety matters. The manufacture of pharmaceutical products is performed under controlled conditions. Microbial monitoring is an important part of proving the manufacturing process is under control, especially in aseptic production. The risk-based implementation of sampling plans as well as subsequent trend analysis of monitoring results, this helps to detect deviations from qualified status, prepare root cause analysis and follow up with appropriate CAPAs.



Learn more on
our Website





100%

OUR SERVICES FOR YOU

Benefit from our all-around services offer from validation and training to maintenance and calibration.

- Validation package: validation protocols and on-site IQ/OQ service
- Service plans: preventative & curative maintenance
- Traceability & calibration accuracy

Learn more on
our Website





Accuracy



**setting
standards**



**Minimizes
Risk**

Learn more on
our Website





Accuracy



Consistent and reliable high performance

Our products are manufactured for high quality assured raw materials, each raw material is from a proven and audited supplier. The use of standardized manufacturing practices ensures high quality products. These conditions ensure a high quality and reliable product that makes your result trending data accurate, reliable and consistent.



setting standards

for ease of use and safety

Our expertise and constant quality improvement programs coupled with a high level of validation and scientific data advances the environmental monitoring products to a world leading position.



Minimizes Risk



to make your work more secure

Our product range is designed to minimize the risk of cross-contamination as well as disruption of unidirectional air flow during active air monitoring up to the highest level of cleanroom grades and isolators.



SURFACE & PERSONNEL MONITORING



**ICR/ICRplus
Contact Plates**

55 mm

**Cleanroom Grade
A/B**

Isolator / RABS



ICR Swabs

**Cleanroom Grade
A/B**

Isolator / RABS



**IsoBag®
Rapid Transfer
Solution**

**Passive Air
Monitoring**

Isolator / RABS



**RT/RTplus
Contact Plates**

55 mm

**Cleanroom Grade
C/D**

ICR/ICRplus Contact Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

The **ICR/ICRplus series of contact plates** provide maximum safety for use in isolators and cleanrooms.

- Aseptically filled and irradiated in final packaging to minimize contamination.
- Full traceability due to Data Matrix barcode on each plate.
- Available with standard TSA/SDA formulations with wide variety of neutralizers for either disinfectants or β -lactam antibiotics.

ICRplus products:

- Smart "CLOSED-VENT" locking system allowing safe transport and optimized incubation under anaerobic conditions.



[Link to our Website](#)



[Speak to a Specialist](#)



ICR/ICRplus Contact Plates

for isolators and critical cleanrooms

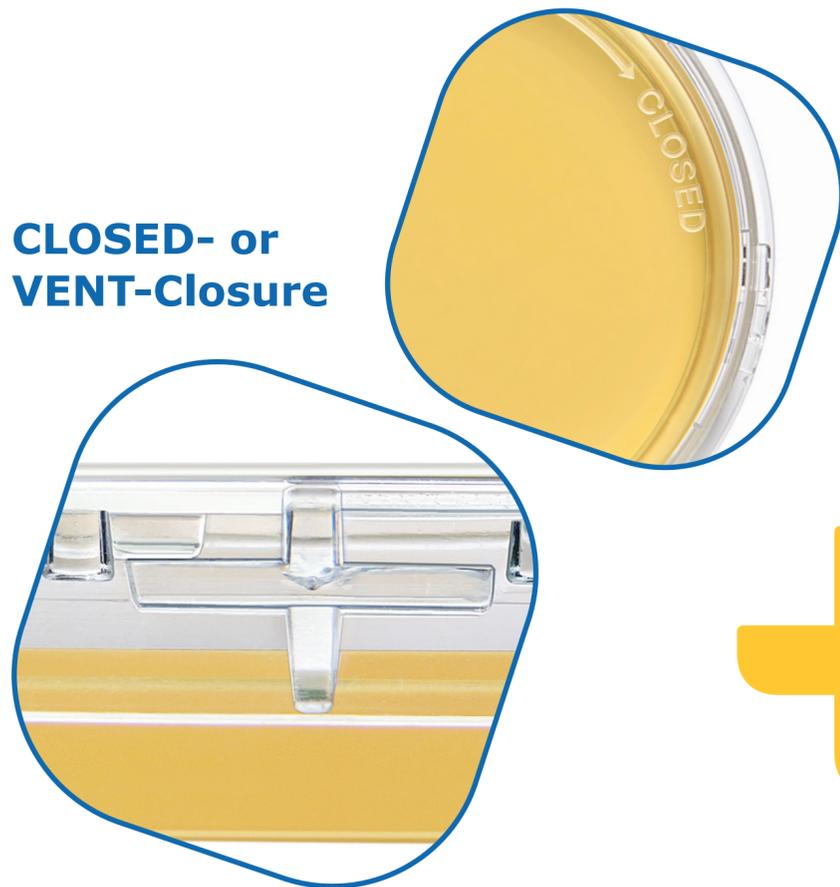


Description

Benefits

Ordering Information

**CLOSED- or
VENT-Closure**



Maximum safety

- Filled under aseptic conditions, irradiated in final packaging
- Safe transport thanks to H₂O₂-impermeable triple-sleeve packaging
- Data Matrix barcode to ensure full traceability of each individual plate

Maximum convenience

- Storage at room temperature to store at site of use
- Long shelf life to reduce incoming goods controls
- SDA in colored plates to minimize risk of mix-ups

Additional benefits for ICRplus Contact Plates

- Safe transport through integrated locking systems
- CLOSED-VENT system for different incubation conditions

ICR/ICRplus Contact Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICR Contact Plates	55 mm , triple-bagged, irradiated, non-lockable		
SDA Contact +LTHTh – ICR	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate; filled in pink plates	20	1.46201.0020
		200	1.46201.0200
TSA Contact +LT – ICR	with neutralizers lecithin, Tween® 80	20	1.46195.0020
		200	1.46195.0200
TSA Contact +LTHTh – ICR	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46231.0020
		200	1.46231.0200
TSA LTHThio cont. – ICR	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46797.0020
		200	1.46797.0200



ICR/ICRplus Contact Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICRplus Contact Plates	55 mm , triple-bagged, irradiated, lockable		
Chocolate Contact Agar +LTH – ICRplus	with neutralizers lecithin, Tween® 80, histidine, supports growth of fastidious aerobic and anaerobic microorganisms	200	1.46555.0020
SDA Contact +LTHTh – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate; filled in pink plates	20	1.46501.0020
		200	1.46501.0200
SDA Contact +LTHTh selective – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate, irradiation-resistant antibiotics to inhibit bacterial growth; filled in pink plates	20	1.46538.0020
		200	1.46538.0200
TSA Contact +LT – ICRplus	with neutralizers lecithin, Tween® 80	20	1.46552.0020
		200	1.46552.0200
TSA Contact +LT+ Cephase – ICRplus	with neutralizers lecithin, Tween® 80, β-lacatamses for inactivation of penicillins, all generations of cephalosporins and carbapenems	200	1.46539.0200



ICR/ICRplus Contact Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICRplus Contact Plates	55 mm, triple-bagged, irradiated, lockable		
TSA with LTHThio Contact Plates. – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46783.0020
		200	1.46783.0200
TSA with Penase LTHThio Contact Plates – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate, penase for inactivation of penicillins	20	1.46798.0020
		200	1.46798.0200
Vegetable peptone agar LTHThio Contact Plates – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46803.0020
		200	1.46803.0200
Neutralizer A – Contact Plates – ICRplus	neutralizers for increased spectrum of sanitizers	20	1.46697.0020
		200	1.46697.0200

ICR/ICRplus Contact Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Ord. No.
Plate Rack for Contact Plates	Stainless Steel Rack for 10 x 55 mm plates	1.46502.0001



ICR Swabs



for surface and personnel monitoring in isolators and cleanrooms

Description

Benefits

Ordering Information

Our **ICR swabs** are designed for absence-presence testing on dry, difficult-to-access surfaces and for personnel monitoring. The patented snap-valve design of the swab makes handling both convenient and safe. The low-abrasion swab tip material minimizes the release of particles during use. The tip's moistening solution does not leave any growth promoting residues on the sampled surfaces.

The swab's TSB medium is supplemented with neutralizers to ensure optimal growth conditions, even in the presence of VHP residues in isolators.

A stainless-steel rack helps to safely and easily transport larger numbers of ICR Swabs. It holds 36 tubes and is sized 196 x 99 x 104 mm.



[Link to our Website](#)



[Speak to a Specialist](#)



ICR Swabs

for surface and personnel monitoring in isolators and cleanrooms



Description

Benefits

Ordering Information



- Suitable for cleanroom and isolator use
- Reaches difficult to access areas
- All-in one design for low contamination risk and easy handling
- Residue-free sampling
- Qualitative microbial presence/absence test

ICR Swabs

for surface and personnel monitoring in isolators and cleanrooms



Description

Benefits

Ordering Information

Product	Content	Ord. No.
ICR Swabs	100	1.46529.0100



ICR Swabs

for surface and personnel monitoring in isolators and cleanrooms



Description

Benefits

Ordering Information

Product

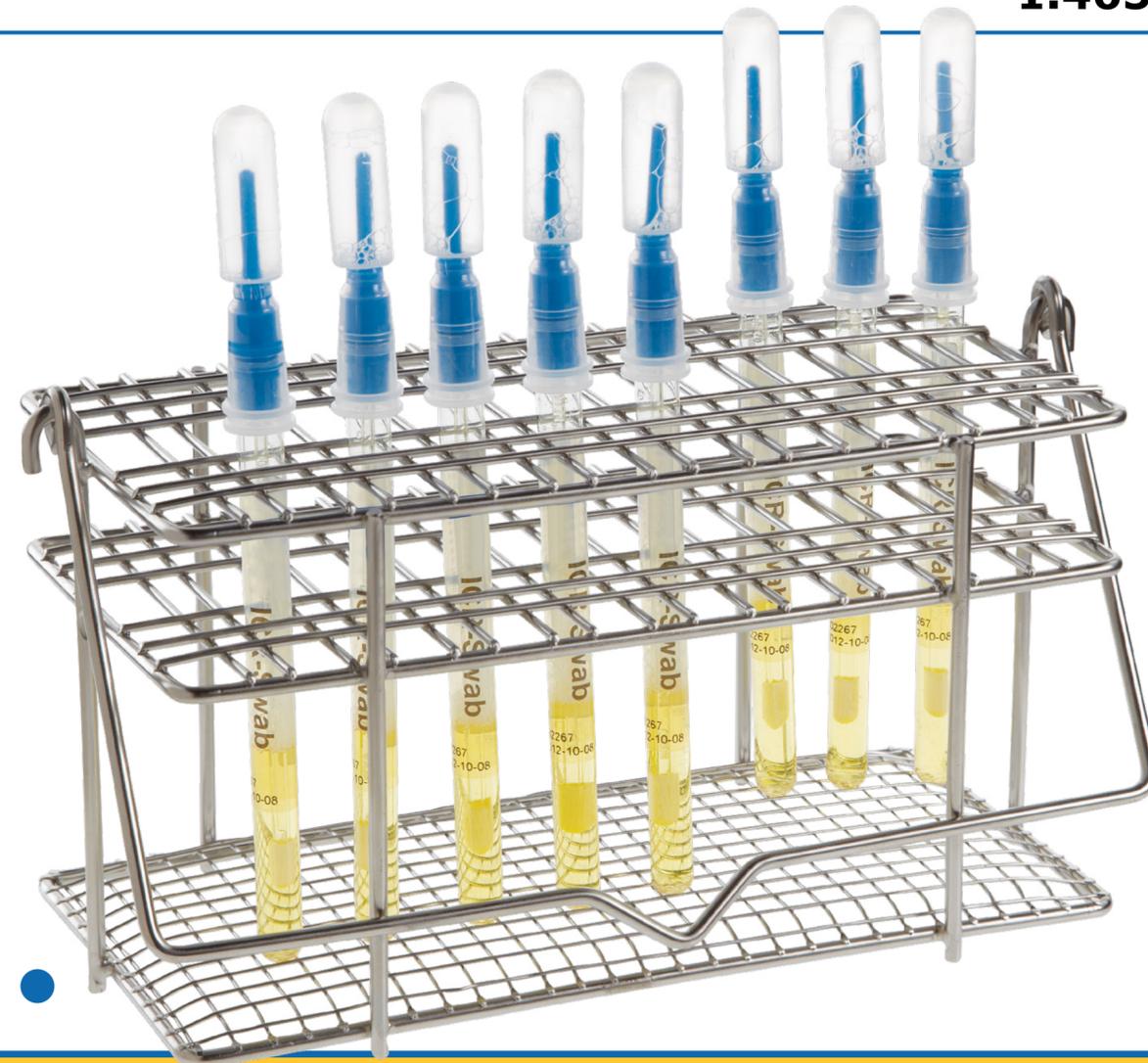
Description

Ord. No.

Swab Rack

Stainless steel

1.46530.0001



IsoBag® Rapid Transfer Solution

for rapid transfer of culture media plates into isolator



Description

Benefits

Properties

Related Products

Ordering Information

Production workflows are always at their most efficient when all tools are ready and available. The **IsoBag**® rapid transportation and packaging solution offers a reliable and easy way to have environmental monitoring plates right at hand in the isolator.

The **IsoBag**® **Solution** speeds up environmental monitoring in aseptic production isolators as it provides ready-to-use irradiated contact or settle plates for immediate use; the bag is simply mounted to the 190 mm alpha port of the isolator, and the required amount of plates can be transferred into the isolator for immediate use.

Saving time spent on decontamination increases operational productivity. In addition, no valuable space is wasted in the isolator to store the required amount of plates between decontamination cycles.



[Link to our Website](#)



[Speak to a Specialist](#)



IsoBag® Rapid Transfer Solution

for rapid transfer of culture media plates into isolator



Description

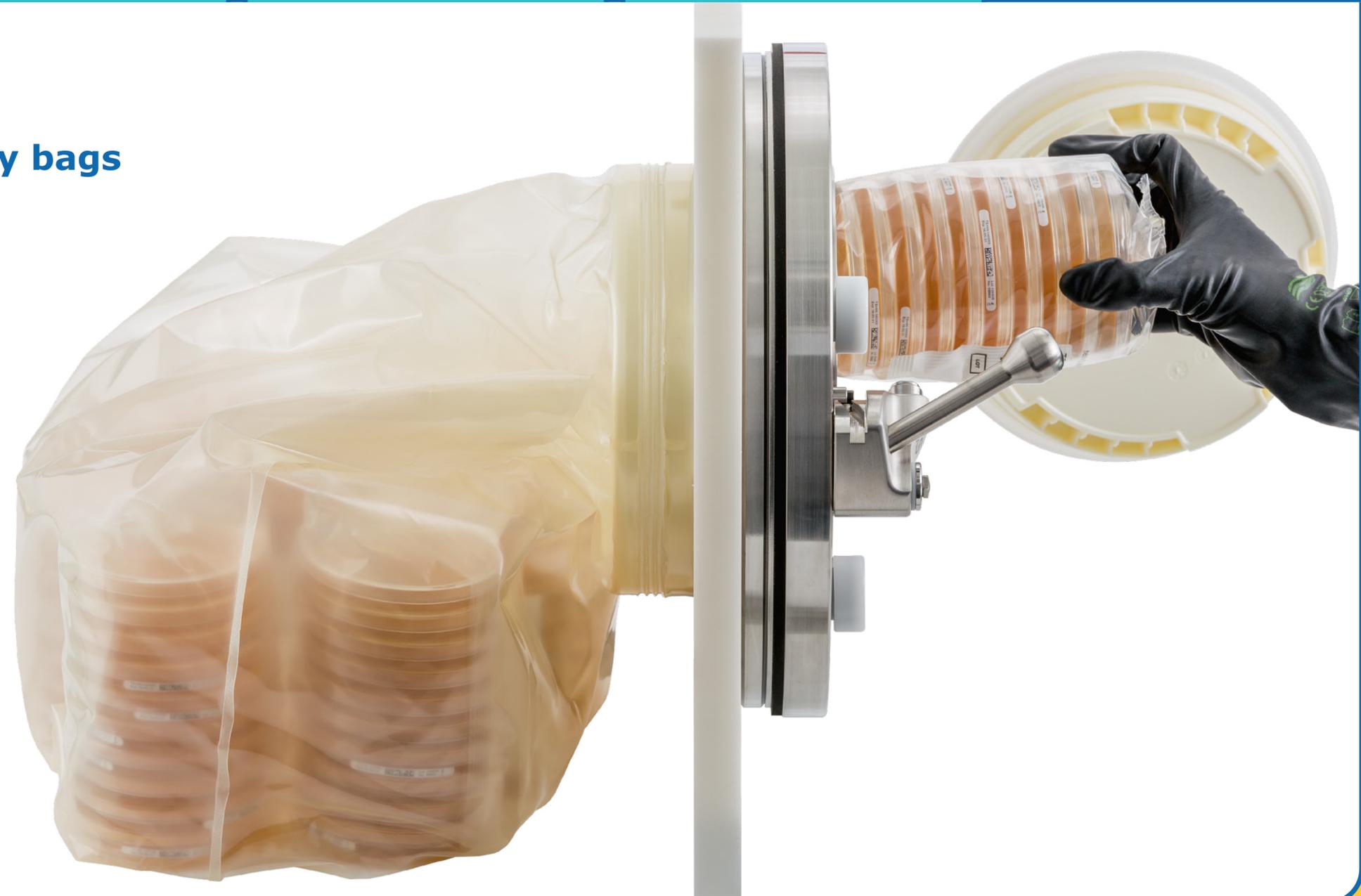
Benefits

Properties

Related Products

Ordering Information

- **No need to decontaminate plates' primary bags**
- **Containment** is maintained throughout use
- Plates are held **ready for immediate use**
- **No storage space** needed within isolator



IsoBag® Rapid Transfer Solution

for rapid transfer of culture media plates into isolator



Description

Benefits

Properties

Related Products

Ordering Information



- Pre-packed DPTE BetaBag® with ready-to-use single-bagged contact or settle plates
- Beta port connectable to any 190 mm DPTE® Alpha port
- Finished product irradiated for immediate use
- Contained plates traceable to corresponding batch of ICR plates
- Available with our TSA + LTHTh in lockable and non-lockable contact and settle plates
- Multiple connections possible
- Sterile bags for safe transport of used plates included

IsoBag® Rapid Transfer Solution

for rapid transfer of culture media plates into isolator



Description

Benefits

Properties

Related Products

Ordering Information

ICR/ICRplus Contact Plates

Irradiated and triple-bagged contact plates are suitable for use in critical cleanrooms, RABS and isolators.



Link to our Website



IsoBag® Rapid Transfer Solution

for rapid transfer of culture media plates into isolator



Description

Benefits

Properties

Related Products

Ordering Information

ICR/ICRplus Settle Plates

Our irradiated and triple-bagged settle plates for monitoring of isolators and critical cleanrooms.



[Link to our Website](#)



IsoBag® Rapid Transfer Solution

for rapid transfer of culture media plates into isolator



Description

Benefits

Properties

Related Products

Ordering Information

Product	Description	Ord. No.
IsoBag® with Contact Plates for 190 mm alpha-port		
IsoBag® TSA+LT Contact	10 x 10, 55 mm Contact Plates 146195, irradiated	1.46784.0100
IsoBag® TSA+LTHTh Contact	55 mm Contact Plates 146231, irradiated	1.46754.0100
IsoBag® TSA+LTHThio Contact+	55 mm lockable Contact Plates 146783, irradiated	1.46753.0100
IsoBag® TSA+LT Contact+	55 mm lockable Contact Plates 146552, irradiated	1.46817.0100
IsoBag® with Settle Plates for 190 mm alpha-port		
IsoBag® TSA+LT Settle+	8 x 10, 90 mm lockable Settle Plates 146684, irradiated	1.46785.0080
IsoBag® TSA+LTHTh Settle	90 mm Settle Plates 146069, irradiated	1.46756.0080
IsoBag® TSA+LTHTh Settle+	90 mm lockable Settle Plates 146683, irradiated	1.46755.0080
IsoBag® TSA Settle	90 mm Settle Plates 146001, irradiated	1.46814.0080

RT/RTplus Contact Plates

for microbial monitoring of air, surfaces and personnel



Description

Benefits

Ordering Information



Microbial monitoring of air, surfaces and personnel requires culture media that ensure reproducible detection results. RT tryptic soy agar (TSA) and sabouraud dextrose agar (SDA) reliably detect bacteria, yeasts and molds in non-critical areas.

The TSA and SDA **RT and RTplus contact plates** are suitable to monitor surfaces for bacterial and fungal contamination.

Selective **RT contact plates** support identification of *Staphylococcus* spp., *Escherichia coli*, bile-tolerant Gram-negative bacteria, yeasts and molds.

Link to our
Website



Speak to
a Specialist



RT/RTplus Contact Plates

for microbial monitoring of air, surfaces and personnel

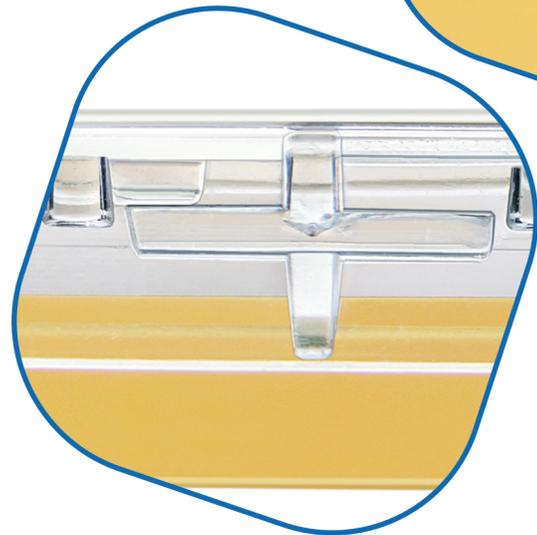


Description

Benefits

Ordering Information

**CLOSED- or
VENT-Closure**



- **Controlled high-quality raw materials**
- **Data Matrix barcode** to ensure full traceability of each individual plate
- **Filled under aseptic conditions**
- **Long shelf life** to reduce incoming goods controls
- **Storage at room temperature** to keep at site of use

Additional benefits for RTplus Contact Plates

- Safe transportation thanks to **integrated locking systems**
- **CLOSED-VENT system** for different incubation conditions

RT/RTplus Contact Plates



for microbial monitoring of air, surfaces and personnel

Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
RT Contact Plates	55 mm , single-bagged, non-lockable		
Malt Extract Agar Contact – RT		20	1.46191.0020
Plate Count Agar Contact – RT		20	1.46154.0020
TSA Contact – RT		20	1.46240.0020
TSA Contact +LTH – RT	with neutralizers lecithin, Tween® 80, histidine	20	1.46200.0020
RTplus Contact Plates	55 mm , single-bagged, lockable		
SDA Contact+ Chloramphenicol – RTplus	lockable plate	20	1.46549.0020
TSA Contact +LTH – RTplus	with neutralizers lecithin, Tween® 80, histidine, lockable plate	20	1.46554.0020



PASSIVE AIR MONITORING



ICR/ICRplus Settle Plates

90 mm / 150 mm

Cleanroom Grade
A/B

Isolator / RABS



IsoBag® Rapid Transfer Solution

Surface & Personnel
Monitoring

Isolator / RABS



Long Incubation (LI) Settle Plates

90 mm

Cleanroom Grade
C/D

ICR/ICRplus Settle Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information



The **ICR/ICRplus series of settle plates** provide maximum safety for use in isolators and cleanrooms.

- Aseptically filled and irradiated in final packaging to minimize contamination.
- Full traceability due to Data Matrix barcode on each plate.
- 30 mL high filling volume to prevent desiccation under extended use.
- Available with standard TSA/SDA formulations with wide variety of neutralizers for either disinfectants or β -lactam antibiotics.

ICRplus products:

- Smart “CLOSED-VENT” locking system allowing safe transport and optimized incubation under anaerobic conditions.

[Link to our Website](#)



[Speak to a Specialist](#)



ICR/ICRplus Settle Plates

for isolators and critical cleanrooms

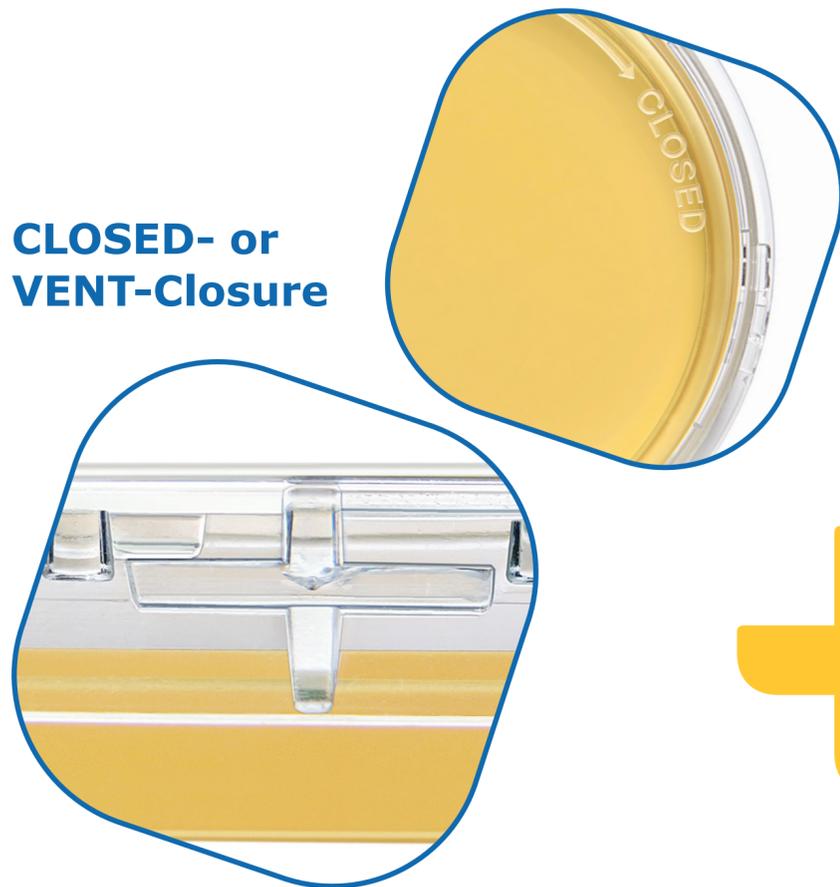


Description

Benefits

Ordering Information

**CLOSED- or
VENT-Closure**



Maximum safety

- Filled under aseptic conditions, irradiated in final packaging
- Safe transport thanks to H₂O₂-impermeable triple-sleeve packaging
- Data Matrix barcode to ensure full traceability of each individual plate

Maximum convenience

- Storage at room temperature to store at site of use
- Long shelf life to reduce incoming goods controls
- SDAin colored plates to minimize risk of mix-ups
- High filling volume to allow prolonged exposure and incubation

Additional benefits for ICRplus Settle Plates

- Safe transport through integrated locking systems
- CLOSED-VENT system for different incubation conditions

ICR/ICRplus Settle Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICR Settle Plates	90 mm , triple-bagged, irradiated, non-lockable		
SDA +LT – ICR 30 mL	with neutralizers lecithin, Tween® 80, filled in pink plates	120	1.46081.0120
SDA +LTHTh – ICR 30 mL	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate, filled in pink plates	20	1.46005.0020
		120	1.46005.0120
SDA selective +LTHTh – 30 mL ICR	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate, antibiotics against bacteria, filled in pink plates	120	1.46016.0120
TSA – ICR 30 mL		20	1.46001.0020
		120	1.46001.0120
TSA +LT – ICR 30 mL	with neutralizers lecithin, Tween® 80	20	1.46050.0020
		120	1.46050.0120
TSA +LTHTh – ICR 30 mL	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46069.0020
		120	1.46069.0120



ICR/ICRplus Settle Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICR Settle Plates			
90 mm , triple-bagged, irradiated, non-lockable			
TSA +LTHThio sedi. – ICR	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46786.0020
		120	1.46786.0120
TSA +LT+ Cephase – ICR	with neutralizers lecithin, Tween® 80, β-lacatamases for inactivation of penicillins, all generations of cephalosporins and carbapenems	20	1.46076.0020
		120	1.46076.0120
TSA with Penase LTHThio sedi. – ICR	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate, penase for inactivation of penicillins	20	1.46799.0020
		120	1.46799.0120
ICR Settle Plates			
150 mm , triple-bagged, irradiated, non-lockable			
TSA LTHTh sedi. – ICR 150 mm	3 plates, each triple-bagged – with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	18	1.46778.0018

ICR/ICRplus Settle Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICRplus Settle Plates	90 mm , triple-bagged, irradiated, lockable		
SDA +LTHTH – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46702.0020
		120	1.46702.0120
TSA +LTHTH 90 mm ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46683.0020
		120	1.46683.0120
TSA + LHTHthio sedi. – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46787.0020
		120	1.46787.0120
TSA +LT 90 mm ICRplus	with neutralizers lecithin, Tween® 80	20	1.46684.0020
		120	1.46684.0120
TSA 90 mm ICRplus		20	1.46685.0020
		120	1.46685.0120
TSA +LT +Cephase – ICRplus	with neutralizers lecithin, Tween® 80	120	1.46700.0120



ICR/ICRplus Settle Plates

for isolators and critical cleanrooms



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
ICRplus Settle Plates	90 mm , triple-bagged, irradiated, lockable		
TSA with Penase LHTHio sedi. – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20 120	1.46800.0020 1.46800.0120
Veg. Pept. Agar with LHTHio sedi. – ICRplus	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20 120	1.46804.0020 1.46804.0120



Long Incubation (LI) Settle Plates

for microbial monitoring of air, surfaces and personnel



Description

Benefits

Ordering Information



Microbial monitoring of air, surfaces and personnel requires culture media that ensure reproducible detection results. RT tryptic soy agar (TSA) and sabouraud dextrose agar (SDA) reliably detect bacteria, yeasts and molds in non-critical areas.

To monitor efficiently the status of environmental control, the culture media must be optimized for recovery of low levels of environmental contaminants.

LI settle plates contain a volume of 30 mL to reduce desiccation during sampling and incubation. Tryptic Soy Agar (TSA) – LI and Sabouraud Dextrose Agar (SDA) – LI are especially designed for active as well as passive air sampling. **LI settle plates** are optimized for long incubation periods.

Link to our
Website



Speak to
a Specialist



Long Incubation (LI) Settle Plates

for microbial monitoring of air, surfaces and personnel



Description

Benefits

Ordering Information

- Controlled high-quality raw materials
- **Data Matrix barcode** to ensure full traceability of each individual plate
- Filled under aseptic conditions
- Long shelf life to reduce incoming goods controls
- Storage at room temperature to keep at site of use
- SDA in colored plates to minimize risk of mix-ups
- High filling volume to allow prolonged exposure and incubation



Long Incubation (LI) Settle Plates

for microbial monitoring of air, surfaces and personnel



Description

Benefits

Ordering Information

Product	Description	Content	Ord. No.
LI Settle Plates	90 mm, single-bagged, non-lockable		
SDA – LI acc. EP		20	1.46028.0020
		120	1.46028.0120
SDA + Chloramphenicol – LI 30 mL		20	1.46003.0020
		120	1.46003.0120
SDA +LTHTTh – LI 30 mL	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46052.0020
		120	1.46052.0120
TSA – LI 30 mL EP+USP		20	1.46004.0020
		120	1.46004.0120
TSA +LTHTTh – LI 30 mL	with neutralizers lecithin, Tween® 80, histidine, sodium thiosulfate	20	1.46002.0020
		120	1.46002.0120



ACTIVE VIABLE AIR MONITORING



**MAS-100 Sirius®
Air Sampler**

Setting new standards
for data integrity

**Cleanroom Grade
A/B**

**Cleanroom Grade
C/D**



**MAS-100 VF®
Air Sampler**

The easy to use
air sampler

**Cleanroom Grade
A/B**

**Cleanroom Grade
C/D**



**MAS-100 Iso MH®
Remote Microbial Air
Sampler**

Pure innovation

Isolator / RABS



**MAS-100 Iso NT®
Remote Air Sampler**

For isolators

Isolator / RABS

MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information



The **MAS-100 Sirius® Microbial Air Sampler** is built on decades of engineering expertise, microbiological experience, regulatory knowledge and interaction with customers. By combining proven performance, refined data handling and smart features, it makes viable air sampling in high-grade cleanrooms more convenient and reliable than ever before.

Experience the future of air monitoring today – you'll never again want to do without the exceptional features of the **MAS-100 Sirius® Air Sampler**.

Link to our Website



Speak to a Specialist



MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information



- Seamless WiFi data transfer via result barcode
- 21 CFR Part 11 compliant software
- Validation according to EN 17141
- Convenient lid handle and magnetic closure
- Size-adaptable plate holder
- Instrument self-checks
- Air flow rate options allow to choose your flow rate
- Dual mass flow sensor system for precision and accuracy
- Automated calibration with MAS-100 Regulus® digital anemometer

MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

General

Size	277 x 147 x 150 mm
Weight	2.6 kg
Material: body / perforated lid	316 L stainless steel, electropolished
Flow rates	100 & 200 standard Liter per minute (SLPM) ± 2.5%
D50 value (physical sampling efficiency)	1.1 µm (lid type A @ 100 SLPM) / 1.15 µm (lid type B @ 200 SLPM)
Sample volumes	Manual configuration between 50 and 4000 Standard Liter (SL)
Sample modes	Single volume of interval sampling, delay adjustable
Plate compatibility	90 mm settle plates, 55 mm contact plates, Growth Direct® EM cassettes
Battery running time	Approx. 40 samples of 1 m ³ at 100 SLPM
Operating conditions	0-40°C, non condensing up to 3000 m above sea level
Data Integrity	21 CFR part 11 compliant software
Noise peak emission	< 56 dBA (200 SLPM)

MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

ICR/ICRplus Settle Plates

Our irradiated and triple-bagged settle plates for monitoring of isolators and critical cleanrooms.



Link to our Website



MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

ICR/ICRplus Contact Plates

Irradiated and triple-bagged contact plates are suitable for use in critical cleanrooms, RABS and isolators.



Link to our Website



MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
Power supply	USB-C power supply for charging battery packs	1.17360.0001
Magnetic perforated Lid A-90mm	Suitable for 90 mm plates at a flow rate of 100 SLPM	1.17883.0001
Magnetic perforated B-90mm	Suitable for 90 mm plates at a flow rate of 200 SLPM	1.17884.0001
*Magnetic perforated A-55mm	Suitable for 55 mm Plates & Growth Direct cassettes at a flow rate of 100 SLPM	1.17885.0001
*Magnetic perforated B-55mm	Suitable for 55 mm Plates & Growth Direct cassettes at a flow rate of 200 SLPM	1.17886.0001
Dust cover	To protect the perforated lid from dirt, autoclavable	1.17887.0001
Blind lid	To protect instrument from dirt, while the perforated lid and dust cover are not in place, (e.g. during sterilization)	1.17888.0001
WiFi dongle	Suitable for various wireless functions, self-assembly	1.17653.0001
Exhaust filter	Replacement HEPA Filter ISO 35H, suitable for self-assembly	1.17655.0001
Battery pack	Replacement Battery Pack, suitable for self-assembly	1.17980.0001

MAS-100 Sirius® Air Sampler

Setting new standards for data integrity



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
MAS-100 Sirius® Microbial Air Sampler	Portable, rechargeable microbial air sampler, scope of delivery designed for flow rates of 100 SLPM and 90 mm plates, power supply not included	1.17880.0001
MAS-100 Sirius® Flex Microbial Air Sampler	Portable, rechargeable microbial air sampler, scope of delivery designed for free selection of flow rate and plate format. Contains a blind lid – power supply, perforated lid and dust cover not included	1.17881.0001



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information



The **MAS-100 VF[®] Air Sampler** is battery operated and portable.

- Compact design
- EasyClean Plate holder
- Speed-based air volume flow control

Link to our Website



Speak to a Specialist



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information



Single touch slide control

- Independently validated according to ISO 14698 (complies with EN 17141)
- Configurable and programmable via common web browsers
- Compatible with 90 mm Petri dishes, 55 mm contact plates and other plate formats
- Calibration certificate stored in the instrument
- Automated calibration traceable to ISO 17025 / NIST

Learn more
on our Website



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

General

Operation principle	Sieve Impaction
Flow rate	Default: 100 LPM \pm 4%
Flow regulation	Blower Speed Regulation
Sample volumes	Selectable from 10 to 2000 liters Preset: 50, 100, 250, 500 & 1000 liters
Delay function	1 to 120 min
Nominal d_{50} value	1.1 μ m at 100 LPM (confirmed by independent validation study acc. ISO 14698)
Biological efficiency	\sim 77% (independent validation study acc. ISO 14698)

Housing

Material	Anodized aluminum
Dimensions (H x W x L)	179 x 109 x 148 mm (with handle)
Weight	1.92 kg (with perforated lid)
Tripod screw thread	$\frac{3}{8}$ " UNC (and $\frac{1}{4}$ " UNC insert), for use with standard camera tripod



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Sampling Head (Perforated lid)

Material Anodized aluminum

Dimensions (D x H) Ø 109 x 32 mm

Weight 190 g

Lid geometry Default: 300 x 0.6 mm

Sterilization Autoclaving; dry heat

Others

Battery capacity Approx. 5 h or 30.000 liters



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

ICR/ICRplus Settle Plates

Our irradiated and triple-bagged settle plates for monitoring of isolators and critical cleanrooms.



Link to our Website



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
Perforated lid	Default version: 300 holes x 0.6 mm, aluminum	1.09195.0001
Perforated lid contact plates	300 holes x 0.6 mm, aluminum, for use with 55 mm ICR contact plates	1.19149.0001
Dust cover	Aluminum cover protects sieve from dirt	1.09084.0001
Battery charger	Including regional adapters and USB cable (USB-C to Type B socket)	1.17104.0001
Tripod	For sampling in heights (88 – 250 cm)	1.09326.0001
Quick change tripod adapter	For quick adaption of MAS-100 VF [®] to tripods without screwing	1.09223.0001
Tube adapter	For sampling hard to access sampling locations, can be used with tubing	1.09224.0001



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
Perforated lid	300 holes x 0.6 mm, aluminum, edge protection (MTO)*	1.19363.0001
RapidMicroBio perforated lid	300 holes x 0.6 mm, aluminum for GD plates (MTO)*	1.17315.0001
Perforated lid	400 holes x 0.7 mm, aluminum	1.09088.0001
Perforated lid	400 holes x 0.7 mm, aluminum, edge protected (MTO) *	1.19364.0001
Perforated lid contact plates	400 holes x 0.7 mm, aluminum, for use with 55 mm ICR contact plates (non-lockable only)	1.09213.0001
RapidMicroBio perforated lid	400 holes x 0.7 mm, aluminum for GD plates (MTO)*	1.17318.0001
Petri dish clamps (3x)	With screws	1.17171.0001

***MTO products are not in stock – please mind lead times**



MAS-100 VF[®] Air Sampler

The easy to use air sampler



Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
MAS-100 VF[®] Air Sampler	Microbial air sampler	1.17103.0001
Scope of delivery	MAS-100 VF[®] microbial air sampler including: 1 x perforated lid (300 x 0.6 mm) 1 x dust cover (plastic) 1 x Allan key No. 3 1 x USB cable 1.5 m 1 x battery charger with DC plug and regional plug adapters 1 x USB stick with manuals and Feller correction table calibration certificates for MAS-100 VF [®] and calibration device 1 x transportation case	

MAS-100 Iso MH[®] Remote Microbial Air Sampler



Pure innovation

Description

Benefits

Technical specifications

Accessories

Ordering Information

The **MAS-100 Iso MH[®] Air Sampler** is a high-performance, remote microbial air sampler designed for use with isolators and RABS systems. Its sampling principle, flow rate regulation using a mass flow sensor, accuracy and collection efficiencies are identical to MAS-100 NT[®]. All instruments are delivered with standard interfaces (USB, RS232, SPS and 9 digital I/O).

- Up to four fixed sample locations within the isolator
- Up to 10 m (50 m without decontamination) distance between sampling location inside and control unit
- Models with additional interfaces such as Ethernet, ProfiBus or ProfiNet are optional



Link to our Website



Speak to a Specialist



MAS-100 Iso MH[®] Remote Microbial Air Sampler



Pure innovation

Description

Benefits

Technical specifications

Accessories

Ordering Information



Unique double valve system

- Double valve system prevents back-flow and cross-contamination and allows active VHP decontamination
- High collection efficiency, independent validation according to ISO 14698 (equivalent to EN 17141)
- Built-in air flow compensation for precise, reproducible flow rate of 100 SLPM
- Various stainless steel sampling head configurations for 90 mm plates or other plate formats
- Multiple options for combining filters (in-line/exhaust)
- Automated calibration with MAS-100 Regulus[®] Anemometer traceable to ISO 17025 or NIST

MAS-100 Iso MH[®] Remote Microbial Air Sampler



Pure innovation

Description

Benefits

Technical specifications

Accessories

Ordering Information

General

Operation principle	Sieve Impaction (Andersen Sampler)
Flow rate	Default: 100 SLPM \pm 2.5%
Flow regulation	In-built mass flow sensor
Sample volumes	Selectable from 10 to 2000 liters Preset: 50, 100, 250, 500 & 1000 liters
SQS (sequential sampling mode, Intervals)	40 to 2000 liters in 2-50 fractions up to 23:59 hours
CNS Mode (consecutive sampling)	Order of sampling/decontamination automatically one head after the other
Delay function	1 to 120 min
Nominal d_{50} value	1.1 μ m at 100 SLPM (confirmed by independent validation study acc. ISO 14698)
Biological efficiency	\sim 78% (independent validation study acc. ISO 14698)



MAS-100 Iso MH[®] Remote Microbial Air Sampler



Pure innovation

Description

Benefits

Technical specifications

Accessories

Ordering Information

Housing

Material	Side walls: anodized aluminum; body: electro polished stainless steel
Dimensions (H x W x L)	160 x 230 x 283 mm
Weight	7.5 kg

Sampling Head with perforated lid

Material	Stainless Steel
Dimensions (D x H)	Ø 109 x 90 mm
Weight	1.5 kg
Lid geometry	Default: 300 x 0.6 mm
Sterilization	Autoclaving; dry heat

Power

Input external power supply	110-240 V AC, 0.7-1.5 A / 47-63 Hz
Input instrument	24 V DC ± 5%, Max. Limits: 2.7 A and 65 W



MAS-100 Iso MH[®] Remote Microbial Air Sampler

Pure innovation



Description

Benefits

Technical specifications

Accessories

Ordering Information

Product	Description	Ord. No.
Standard base for sampling Head	Stainless steel with Allen key, tri-clamp, and silicone gasket	1.09328.0001
Silicone gasket (5x)	Sealing between standard base for sampling head and tubing	1.17084.0001
Easy clean base for sampling head	Stainless steel with tri-clamp and silicone screen gasket	1.17091.0001
Silicone screen gasket (5x)	Sealing between easy clean base for sampling head and tubing	1.17099.0001
Perforated lid	Default version: 300 holes x 0.6 mm, edge-protected, stainless steel	1.09189.0001
Dust cover	Stainless steel cover protects sieve from dirt	1.09644.0001
Power supply	With power cord and regional plug adapters	1.17182.0001
MAS-100 Iso NT [®] IP54 Kit	protection against solid objects that are bigger than 1 mm and water splashing from any direction	1.17159.0001
Remote cable MAS-100 Iso NT [®]	Can be used for remote start & stop of sampling and can display the instrument status via LED	1.17181.0001

Please mind lead times for accessories



MAS-100 Iso MH[®] Remote Microbial Air Sampler



Pure innovation

Description

Benefits

Technical specifications

Accessories

Ordering Information

Product	Description	Ord. No.
Perforated lid	400 holes x 0.7 mm, edge-protected, stainless steel	1.09222.0001
RapidMicroBio easy clean base	Stainless steel, for Growth Direct EM Cassettes	1.17319.0001
RapidMicroBio perforated lid	300 holes x 0.6 mm, stainless steel for Growth Direct Cassettes	1.17314.0001
Aervent KTGR Opticap XL5 capsule	Hydrophobic 0.2 µm, 5''	KTGRA05TT1
Aervent KTGR Opticap XL10 capsule	Hydrophobic 0.2 µm, 10''	KTGRA10TT1
Pressure test kit	For testing tightness of installation	1.17085.0001
Calibration cable, 10 m	RS232 connection for connection of calibration device MAS-100 [®] Regulus	1.17098.0001
ProfiNet module	Converts ProfiBus to ProfiNet interface	1.17290.0001
Elbow joint	Stainless steel with 2 tri-clamps and silicone gaskets	1.17083.0001
Tri-clamp (3x)	To facilitate mounting of sampling heads	1.09440.0001

Please mind lead times for accessories



MAS-100 Iso MH[®] Remote Microbial Air Sampler



Pure innovation

Description

Benefits

Technical specifications

Accessories

Ordering Information

Product	Interface	No. of heads	Ord. No.	Interface	No. of heads	Ord. No.
MAS-100 Iso MH[®] Air Sampler microbial air sampler	Standard*	1	1.17174.0001	ProfiBus*	1	1.17177.0001
		2	1.17118.0001		2	1.17144.0001
		3	1.17146.0001		3	1.17147.0001
		4	1.17149.0001		4	1.17155.0001
	Ethernet*	1	1.17178.0001	ProfiNet*	1	1.17292.0001
		2	1.17145.0001		2	1.17309.0001
		3	1.17148.0001		3	1.17310.0001
		4	1.17157.0001		4	1.17312.0001

Scope of delivery

MAS-100 Iso NT[®] microbial air sampler including:

MAS-100 Iso NT[®] control unit: The control units come with pre-assembled valves to connect optional tubing, sampling base and perforated lids.

*MTO products are not in stock – please mind lead times

MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information

The **MAS-100 Iso NT[®] Air Sampler** is a high-performance, remote microbial air sampler designed for use with isolators and RABS systems. Its sampling principle, flow rate regulation using a mass flow sensor, accuracy and collection efficiencies are identical to MAS-100 NT[®].

All instruments are delivered with standard interfaces (USB, RS232, SPS and 9 digital I/O).

- Alphanumeric LCD display
- One fixed sample locations within the isolator
- Up to 10 m (50 m without using decontamination) distance between sampling location inside and control unit
- Models with additional interfaces such as Ethernet, ProfiBus or ProfiNet are optional



Link to our Website



Speak to a Specialist



MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information



Unique double valve system

- Double valve system prevents back-flow and cross-contamination and allows active VHP decontamination
- High collection efficiency, independent validation according to ISO 14698 (equivalent to EN 17141)
- Built-in air flow compensation for precise, reproducible flow rate of 100 SLPM
- Various stainless steel sampling head configurations for 90 mm plates or other plate formats
- Multiple options for combining filters (in-line/exhaust)
- Automated calibration with MAS-100 Regulus[®] Anemometer traceable to ISO 17025 or NIST

MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information

General

Operation principle	Sieve Impaction (Andersen Sampler)
Flow rate	Default: 100 SLPM \pm 2.5%
Flow regulation	In-built mass flow sensor
Sample volumes	Selectable from 10 to 2000 liters Preset: 50, 100, 250, 500 & 1000 liters
SQS (sequential sampling mode, Intervals)	40 to 2000 liters in 2-50 fractions up to 23:59 hours
Delay function	1 to 120 min
Nominal d_{50} value	1.1 μ m at 100 SLPM (confirmed by independent validation study acc. ISO 14698)
Biological efficiency	\sim 78% (independent validation study acc. ISO 14698)



MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information

Housing

Material	Side walls: anodized aluminum; body: electro polished stainless steel
Dimensions (H x W x L)	160 x 230 x 283 mm
Weight	7.5 kg
Display	Alphanumeric LCD

Sampling Head with perforated lid

Material	Stainless Steel
Dimensions (D x H)	Ø 109 x 90 mm
Weight	1.5 kg
Lid geometry	Default: 300 x 0.6 mm
Sterilization	Autoclaving; dry heat

Power

Input external power supply	110-240 V AC, 0.7-1.5 A / 47-63 Hz
Input instrument	24 V DC ± 5%, Max. Limits: 2.7 A and 65 W



MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information

Product	Description	Ord. No.
Standard base for sampling Head	Stainless steel with Allen key, tri-clamp, and silicone gasket	1.09328.0001
Silicone gasket (5x)	Sealing between standard base for sampling head and tubing	1.17084.0001
Easy clean base for sampling head	Stainless steel with tri-clamp and silicone screen gasket	1.17091.0001
Silicone screen gasket (5x)	Sealing between easy clean base for sampling head and tubing	1.17099.0001
Perforated lid	Default version: 300 holes x 0.6 mm, edge-protected, stainless steel	1.09189.0001
Dust cover	Stainless steel cover protects sieve from dirt	1.09644.0001
Power supply	With power cord and regional plug adapters	1.17182.0001
MAS-100 Iso NT [®] IP54 Kit	protection against solid objects that are bigger than 1 mm and water splashing from any direction	1.17159.0001
Remote cable MAS-100 Iso NT [®]	Can be used for remote start & stop of sampling and can display the instrument status via LED	1.17181.0001

Please mind lead times for accessories



MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information

Product	Description	Ord. No.
Perforated lid	400 holes x 0.7 mm, edge-protected, stainless steel	1.09222.0001
RapidMicroBio easy clean base	Stainless steel, for Growth Direct EM Cassettes	1.17319.0001
RapidMicroBio perforated lid	300 holes x 0.6 mm, stainless steel for Growth Direct Cassettes	1.17314.0001
Aervent KTGR Opticap XL5 capsule	Hydrophobic 0.2 µm, 5''	KTGRA05TT1
Aervent KTGR Opticap XL10 capsule	Hydrophobic 0.2 µm, 10''	KTGRA10TT1
Pressure test kit	For testing tightness of installation	1.17085.0001
Calibration cable, 10 m	RS232 connection for connection of calibration device MAS-100 [®] Regulus	1.17098.0001
ProfiNet module	Converts ProfiBus to ProfiNet interface	1.17290.0001
Elbow joint	Stainless steel with 2 tri-clamps and silicone gaskets	1.17083.0001
Tri-clamp (3x)	To facilitate mounting of sampling heads	1.09440.0001

Please mind lead times for accessories



MAS-100 Iso NT[®] Air Sampler

For isolators



Description

Benefits

Technical specifications

Accessories

Ordering Information

Product	Description	Interface	No. of heads	Ord. No.
MAS-100 Iso NT[®] Air Sampler	Microbial air sampler	Standard	1	1.09168.0001
		Ethernet	1	1.09174.0001
		ProfiBus*	1	1.09173.0001
		ProfiNet*	1	1.17291.0001

Scope of delivery

MAS-100 Iso NT[®] microbial air sampler including:

MAS-100 Iso NT[®] control unit: The control units come with pre-assembled valves to connect optional tubing, sampling base and perforated lids.

*MTO products are not in stock – please mind lead times



COMPRESSED GAS MONITORING



MAS-100 ATMOS®
Microbial Compressed
Gas Sampler

Cleanroom Grade
A/B

Cleanroom Grade
C/D



MAS-100 ATMOS® Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

The **MAS-100 Atmos® Microbial Compressed Gas Sampler** is a high precision, portable and battery-powered device to monitor pressurized gases such as air, nitrogen, carbon dioxide, and argon. The instrument is easy to use and can be operated in a pressure range of 1.2 to 7 bar.a (17.4 to 101.5 psi).

At flow rate of 100 L/min the **MAS-100 Atmos® Compressed Gas Sampler** has the identical impaction speed and D50 value as the MAS-100 NT®.

The microorganisms are impacted under pressure to avoid any damage by dynamic decompression.



Link to our Website



Speak to a Specialist



MAS-100 ATMOS[®] Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information



**Impacts microorganisms
under pressure**

Ease of use that minimizes handling errors

- Automated flow rate regulation for pre-defined gas types
- Automated decompression
- Automated calibration traceable to ISO 17025 / NIST
- Impaction under pressure minimizes risk of false negatives

From non-digital to fully computerized acc. to 21 CFR Part 11

- Freely configurable out-of-the-box use
- Individual login via hardware key token and PIN
- Tamper-proof audit trail download
- Unique result barcode for implementation in EM software systems

MAS-100 ATMOS® Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

General

Operation principle	Sieve Impaction
Gas types	Default: compressed air, Nitrogen (N ₂), carbon dioxide (CO ₂), Argon (Ar), customized gas type (non-oxidizing or flammable gases) if gas factor known
Pressure range	1.2 to 7 bar.a ± 2% (17.4 to 101 psi)
Flow rate	Default: 100 LPM ± 5% Optional: 50 LPM ± 5%
Flow regulation	Mass-flow sensor
Sample volumes	Selectable from 50 to 3000 normal liters (NL) Preset: 50, 100, 250, 500 & 1000 NL
Nominal d ₅₀ value	1.1 µm at 100 LPM

Housing

Material	Injection-molded high-performance polystyrene with plastic primer and texture varnish
Dimensions (H x W x L)	180 x 210 x 500 mm (with handle)
Weight	7.3 kg (with sampling head)



MAS-100 ATMOS[®] Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Perforated lid

Material	Anodized aluminum (blue)
Dimensions (D x H)	Ø 109 x 90 mm
Weight	190 g
Lid geometry	Default: 300 x 0.6 mm
Sterilization	Autoclaving; dry heat

Others

Battery capacity	Approx. 2 to 5h depending on chosen settings and pressure range
Operating temperature	+5 to +45°C
Sound level	< 80 dB at highest pressure point (7 bar.a)



MAS-100 ATMOS® Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

ICR/ICRplus Settle Plates

Our irradiated and triple-bagged settle plates for monitoring of isolators and critical cleanrooms.



Link to our Website



MAS-100 ATMOS® Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
Sampling head Atmos with perforated lid 300 x 0.6 mm	Default version: provides D ₅₀ of 1.1 µm at 100 liters/min	1.17357.0001
Sampling head Atmos with perforated lid 300 x 0.47 mm	Provides D ₅₀ of 1.1 µm at 50 liters/min	1.17363.0001
Pressure tube Atmos 2 m with TC Connector	PTFE Tube with 3/8'' female connector to gas supply with connector to instrument	1.17354.0001
Gas exhaust tube Atmos 5 m with TC Connector	PVC tube Ø 50 mm, stainless steel connector and tri-clamp	1.17349.0001
Adapter gas exhaust tube for MAS-100 Atmos®	Stainless steel adapter for self-assembly of gas exhaust tubing	1.17348.0001
Hardware key set (5x) for MAS-100 Atmos®	Re-writable for individual user login	1.17333.0001
Wheeled transport case for MAS-100 Atmos®	For safe transportation	1.17334.0001

Please mind lead times for accessories



MAS-100 ATMOS® Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
Dust cover for MAS-100 Atmos®	Polypropylene, white, autoclavable	1.17340.0001
Plate holder for MAS-100 Atmos® stainless steel	Autoclavable	1.17335.0001
Filter cover for MAS-100 Atmos® with 3 screws	Aluminum, autoclavable	1.17336.0001
Tri-clamp 34 mm for MAS-100 Atmos®	Used to connect pressure tube with sampling head	1.17367.0001
Silicone gasket (5x) 34/10 mm for MAS-100 Atmos®	Sealing of connection between pressure gas tube and sampling head	1.17364.0001
Silicone gasket 50.5/40 mm for MAS-100 Atmos®	Sealing of connection between gas exhaust adapter and tubing	1.17366.0001
Battery charger MAS-100 Atmos®	Including USB-C cable and regional plug adapters	1.17329.0001

Please mind lead times for accessories



MAS-100 ATMOS® Microbial Compressed Gas Sampler



Simple, safe and compliant

Description

Benefits

Technical specifications

Related Products

Accessories

Ordering Information

Product	Description	Ord. No.
MAS-100 Atmos® Microbial Compressed Gas Sampler	Microbial compressed gas sampler	1.17328.0001
Scope of delivery	MAS-100 Atmos® Microbial Compressed Gas Sampler including: 1 x sampling head with perforated lid (300 x 0.6 mm) 1 x pressure connection tube 2 m PTFE with connection pieces (3/8" female) to gas supply and instrument (34 mm tri-clamp and silicone gasket) 1 x dust lid 1 x tri-clamp Ø 34 mm 1 x silicone gasket 34/10 mm 1 x battery charger incl. USB C cable and regional plug adapters 1 x system administrator hardware key (black) 5 x configurable hardware keys documentation incl. calibration certificates	



ASEPTIC PROCESS SIMULATION



Dehydrated Culture Media (DCM)

Cleanroom Grade A/B

Isolator / RABS



Ready-to-use Culture Media (RTU)

Cleanroom Grade A/B

Isolator / RABS



Dehydrated Culture Media (DCM)

for safe media preparation



Description

Benefits

Ordering Information

The available **granulated culture media** for aseptic process simulation are irradiated and triple-packaged. Every batch is carefully tested to ensure excellent growth properties and filterability, and of course absence of microbial contamination.

The granulation format of the media reduces dust spread during preparation, thus lowering health risks and preventing contamination of the work environment. Less dust on equipment also eases handling and cleaning.

Tryptic soy broth and its non-animal origin alternative are available in 500 g and 5 kg packs.



[Link to our Website](#)



[Speak to a Specialist](#)



Dehydrated Culture Media (DCM)

for safe media preparation



Description

Benefits

Ordering Information

- **Safe media preparation** thanks to irradiated and triple-bagged products
- **Low-dust granules** to maximize safety and performance
- **Excellent cold filterability** to avoid clogging and costs
- **Excellent solubility** to significantly reduce preparation time and effort
- BSE-free certified and non-animal origin products for **ultimate process safety**



Dehydrated Culture Media (DCM)

for safe media preparation



Description

Benefits

Ordering Information

Product	Content	Ord. No.
Tryptic Soy Broth – non-animal origin (irradiated), triple-bagged	500 g	1.00550.0500
	5 kg	1.00550.5000
Tryptic Soy Broth (irradiated)	500 g	1.00800.0500
	5 kg	1.00800.5000
Vegetable Peptone Broth – Halal & Kosher (irradiated)	500 g	1027540500
	5 kg	1027545000
Thioglycolate Broth – non-animal origin (irradiated)	5 kg	1087205000

Ready-to-use Culture Media (RTU)

Pre-filtered and ready to go



Description

Benefits

Ordering Information

10 L media fill bags containing ready-to-use culture media

The 10 L bags are filled with either tryptic soy broth or vegetable peptone broth. The media is sterile, triple-bagged and irradiated for safe use in process lines. The self-collapsing bags include an 80 cm long tube with a connector to enable direct connection to the filling line. The bags are available with an MPC or a Lynx connector.



Link to our Website



Speak to a Specialist



Ready-to-use Culture Media (RTU)



Pre-filtered and ready to go

Description

Benefits

Ordering Information

- **Ready and easy to use** with simple connection to your process line
- Packed in transport box for easy handling
- Sterile, triple-bagged and irradiated for **ultimate process safety**
- BSE-certified and non-animal origin products for **total confidence**



Ready-to-use Culture Media (RTU)



Pre-filtered and ready to go

Description

Benefits

Ordering Information

Product	Content	Ord. No.
Tryptic Soy Broth – self-collapsing bag, irradiated, MPC connector	10 L bag	1.46316.0001
Vegetable Peptone Broth – self-collapsing bag, irradiated, MPC connector	10 L bag	1.46332.0001
Vegetable Peptone Broth 10L Lynx® (self-collapsing bag, irradiated, Lynx® S2S connector)	10 L bag	1.46749.0001



CLEANROOM GRADE



**ICR/ICRplus
Contact Plates**



**ICR
swabs**



**ICR/ICRplus
Settle Plates**



**IsoBag®
Rapid Transfer
Solution**



**MAS-100 Sirius®
Air Sampler**



**MAS-100 Atmos®
Microbial Compressed
Gas Sampler**



**MAS-100 VF®
Air Sampler**



**Dehydrated
Culture Media**



**Ready-to-use
Culture Media**



CLEANROOM GRADE



**RT/RTplus
Contact Plates**



**LI
Settle Plates**



**MAS-100 Sirius®
Air Sampler**



**MAS-100 Atmos®
Microbial Compressed
Gas Sampler**



**MAS-100 VF®
Air Sampler**



ISOLATOR / RABS



**ICR/ICRplus
Contact Plates**



**ICR/ICRplus
Settle Plates**



**IsoBag®
Rapid Transfer
Solution**



ICR swabs



**MAS-100 Iso NT®
Remote
Air Sampler**



**MAS-100 Iso MH®
Remote
Air Sampler**



**Dehydrated
Culture Media**



**Ready-to-use
Culture Media**



CONTACT



**Your first choice for
Environmental Monitoring Solutions
in the Pharmaceutical Industry:**

**Learn more on
our Website**



**Speak to
a Specialist**



**For further information
please contact:**

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

[SigmaAldrich.com](https://www.sigmaaldrich.com)

The life science business of Merck operates as MilliporeSigma in the US and Canada.
© 2025 Merck KGaA, Darmstadt, Germany and its affiliates. All Rights Reserved.
Merck, the vibrant M, Millipore, IsoBag, Opticap, Lynx and GranuCult are trademarks of Merck KGaA,
Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners.
Detailed information on trademarks is available via publicly accessible resources.

Lit. No. MK_iPDF9514EN Ver. 4.0
10/2025