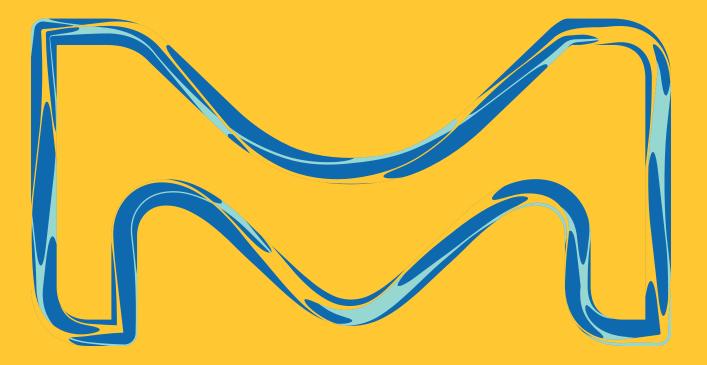
## THE SAFETY SENTINELS

Environmental Monitoring Solutions for Pharmaceutical Industry





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

### Millipore®

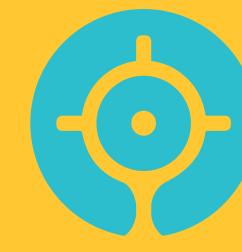
Preparation, Separation, Filtration & Monitoring Products



## THE SAFETY SENTINELS



**INTRO** 











#### **APPLICATIONS**



#### **CLEANROOM GRADES**





## THE SAFETY SENTINELS



**INTRO** 









Media Fill / Aseptic Process Simulation





#### **APPLICATIONS**



#### **CLEANROOM** GRADES

#### **Surface & Personnel Monitoring**

- **Passive Air Monitoring**
- **Active Viable Air Monitoring**
- **Compressed Gas Monitoring**





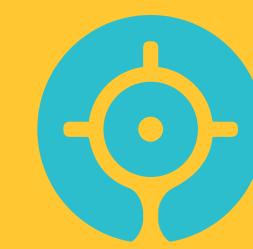
## THE SAFETY SENTINELS



**INTRO** 



SERVICE



**Isolator / RABS** 







#### **APPLICATIONS**



#### **CLEANROOM** GRADES

#### **Cleanroom Grade A/B**

#### **Cleanroom Grade C/D**





# ON GUERD

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.



### **GMP** compliant solutions for process monitoring in pharmaceutical manufacturing

Learn more on our Website





# 

# **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





## STEP AHEAD!

3

in Environmental Monitoring Solutions

Learn more on our Website



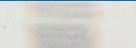


# ACCUPACY Consistent and reliable high performance

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

coupled with a high level of validation and scientific data advances the environmental monitoring products to a world leading position.





Our expertise and constant quality improvement programs



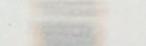


# MINIZES RISK to make your work more secure

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.













**HYCON® Contact Slides** 

**Cleanroom Grade** A/B

**Cleanroom Grade** C/D

ICR/ICR+ **Contact Plates** 55 mm

Statistics.

**Cleanroom Grade** A/B

**Isolator / RABS** 

変換者が必須

**ICR Swabs** 

A/B









## HYCON® Contact Slides for monitoring curved surfaces and personnel

**Description** 

**Benefits** 

Ordering Information

**HYCON® Contact Slides** are designed for monitoring flat and curved surfaces as well as personnel. They are available in standard single packaging or in a double-bagged, gamma-irradiated format.

Both the standard and the gamma-irradiated **HYCON® Contact Slides** are rectangular in shape and provide a surface of 25 cm<sup>2</sup>. Individual sealing of the primary packaging allows opening single contact slides at a time to reduce waste.

The slide's body is slightly flexible to allow efficient sampling of curved surfaces. All slides are equipped with a cover slide for closure after use, increasing safety during both transport and incubation.

> Link to our Website



Download Brochure













## HYCON<sup>®</sup> Contact Slides for monitoring curved surfaces and personnel

#### Description

**Benefits** 

- For critical or non-critical environments
- Designed for use on flat and curved surfaces
- Safe transport and incubation







## HYCON<sup>®</sup> Contact Slides for monitoring curved surfaces and personnel

Description

Benefits

## Ordering Information

| Product                      | Description  | Content | Ord. No.     |
|------------------------------|--|---------|--------------|
| Contact Slides Blank Strip   | Kit for use with HYCON®  | 20      | 1.44024.0020 |
| <b>HYCON® Contact Slides</b> | Gamma-irradiated, double-bagged  |         |              |
| Contact Slides DE-y          | Gamma-irradiated, modified Dey Engley Agar (D/E Agar),<br>double-bagged; for determination of total count in aseptic<br>environments; with neutralizers (lecithin, sorbitol monooleate<br>complex, sodium thioglycolate, sodiumbisulfite) and<br>growth supplements. | 20      | 1.44021.0020 |
| Contact Slides SDX-y         | Gamma-irradiated Sabouraud Dextrose Agar with modified<br>pharmacopoeia formulation, double-bagged; for determination<br>of yeasts and molds in aseptic environments; with neutralizers<br>(Tween <sup>®</sup> 80, L-a-phosphatidylcholine) and growth supplements.  | 20      | 1.44016.0020 |
| Contact Slides TC-y          | Gamma-irradiated Tryptic Soy Agar, double-bagged;  | 20      | 1.44022.0020 |
|                              | for determination of total count in aseptic environment;<br>with neutralizers (lecithine, sorbitol monooleate complex,<br>Tween <sup>®</sup> 80) and growth supplements.   | 100     | 1.44022.0100 |





## HYCON<sup>®</sup> Contact Slides for monitoring curved surfaces and personnel

#### Description

Benefits

| Product                      | Description  | Content | Ord. No.     |
|------------------------------|--|---------|--------------|
| <b>HYCON® Contact Slides</b> | Standard, single-bagged  |         |              |
| Contact Slides C             | Mac Conkey Agar; for determination of coliform bacteria;<br>with growth supplements.   | 20      | 1.44019.0020 |
| Contact Slides SDX           | Sabouraud Dextrose Agar with modified pharmacopoeia formulation; for determination of yeasts and molds; with neutralizers (Tween <sup>®</sup> 80, L-a-phosphatidylcholine) and growth supplements. | 20      | 1.44017.0020 |
| Contact Slides TC            | Tryptic Soy Agar; for determination of the total count;  | 20      | 1.44023.0020 |
|                              | with neutralizers (lecithin, L-histidine, sorbitol monooleate complex, Tween <sup>®</sup> 80) and growth supplements.  |         | 1.44023.0100 |
| Contact Slides YM            | Rose Bengal Agar with streptomycin and chloramphenicol;<br>for determination of yeasts and molds; with growth supplements.   | 20      | 1.44018.0020 |





#### Description

**Benefits** 

Related **Products** 

- 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 *B*-lactam antibiotics.

#### **ICRplus products:**

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







#### Further Reading

#### Accessories

Ordering Information

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

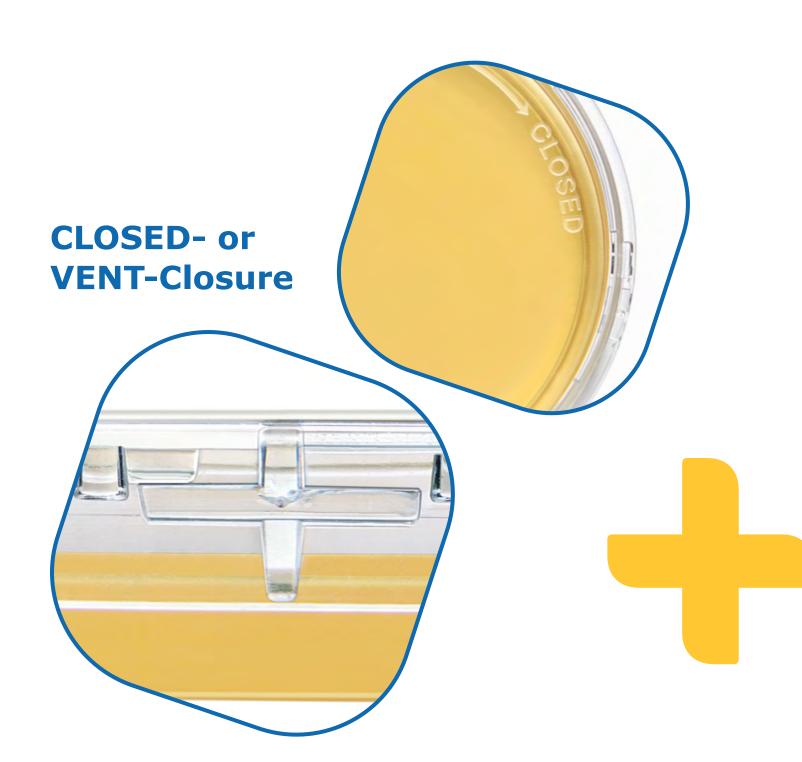




#### Description

**Benefits** 

#### Related **Products**



#### **Maximum safety**

- Filled under aseptic conditions, gamma-irradiated in final packaging
- Safe transport thanks to  $H_2O_2$ -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





#### Accessories



#### Description

**Benefits** 

Related **Products** 

#### **ICR/ICRplus Settle Plates**

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













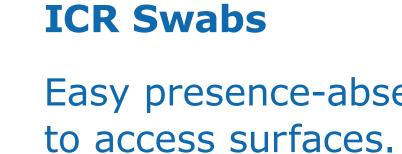




#### Description

**Benefits** 

Related **Products** 



ICR:Swab







Easy presence-absence test on difficult

Link to our Website







#### Description

**Benefits** 

Related **Products** 









Ordering Information

#### **Additional information**

- AN4476 Neutralization Efficacy of ICR Plates
- Reworked Anios AN
- SDA AN

**Further** 

Reading

• AN2005 – Anaerobic Monitoring using our lockable TSA+LTHTh ICR+ plates

Description

**Benefits** 

Related **Products** 

Description

| Prod | uct |
|------|-----|
| FIUU | ucl |

**Plate Rack for Contact Plates** 

Stainless Steel Rack for 10 x 55 mm plates







Ord. No.



Description

**Benefits** 

Related **Products** 

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



| Further<br>Reading | Accessories | Ordering<br>Information |
|--------------------|-------------|-------------------------|





#### Descr

| ription                                | Benefits               | Related<br>Products  | Further<br>Reading   | Acce    | essories     | Ordering<br>Informatio |
|--|------------------------|--|--|---------|--------------|------------------------|
| Product                                |                        | Description  |  |         | Content      | Ord. No.               |
| <b>ICRplus Con</b>                     | tact Plates            | 55 mm, triple-bag  | ged, gamma-irradiated, le  | ockable |              |                        |
| Chocolate Cor                          | ntact Agar +LTH – ICR+ |  | cithin, Tween <sup>®</sup> 80, histidin<br>fastidious aerobic and ar                     | •       | 200          | 1.46555.0020           |
| SDA Contact +LTHTh – ICR+              |                        | with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, sodium thiosulfate; filled in pink plates  |  | 20      | 1.46501.0020 |                        |
|  |                        |  |  | 200     | 1.46501.0200 |                        |
| SDA Contact +LTHTh selective –<br>ICR+ |                        | with neutralizers lecithin, Tween <sup>®</sup> 80, histidine,<br>sodium thiosulfate, irradiation-resistant antibiotics to<br>inhibit bacterial growth; filled in pink plates |  | 20      | 1.46538.0020 |                        |
|  |                        |  |  | 200     | 1.46538.0200 |                        |
| TSA Contact -                          | +LT – ICR+             | with neutralizers lecithin, Tween <sup>®</sup> 80  |  | 20      | 1.46552.0020 |                        |
|  |                        |  |  |         | 200          | 1.46552.0200           |
| TSA Contact -                          | +LT+ Cephase – ICR+    |  | cithin, Tween <sup>®</sup> 80,<br>activation of penicillins,<br>ephalosporins and carbap | penems  | 200          | 1.46539.0200           |







#### Description

Benefits

Related **Products** 

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



| Further<br>Reading | Accessories | Ordering<br>Informatio |
|--------------------|-------------|------------------------|





Description

**Benefits** 

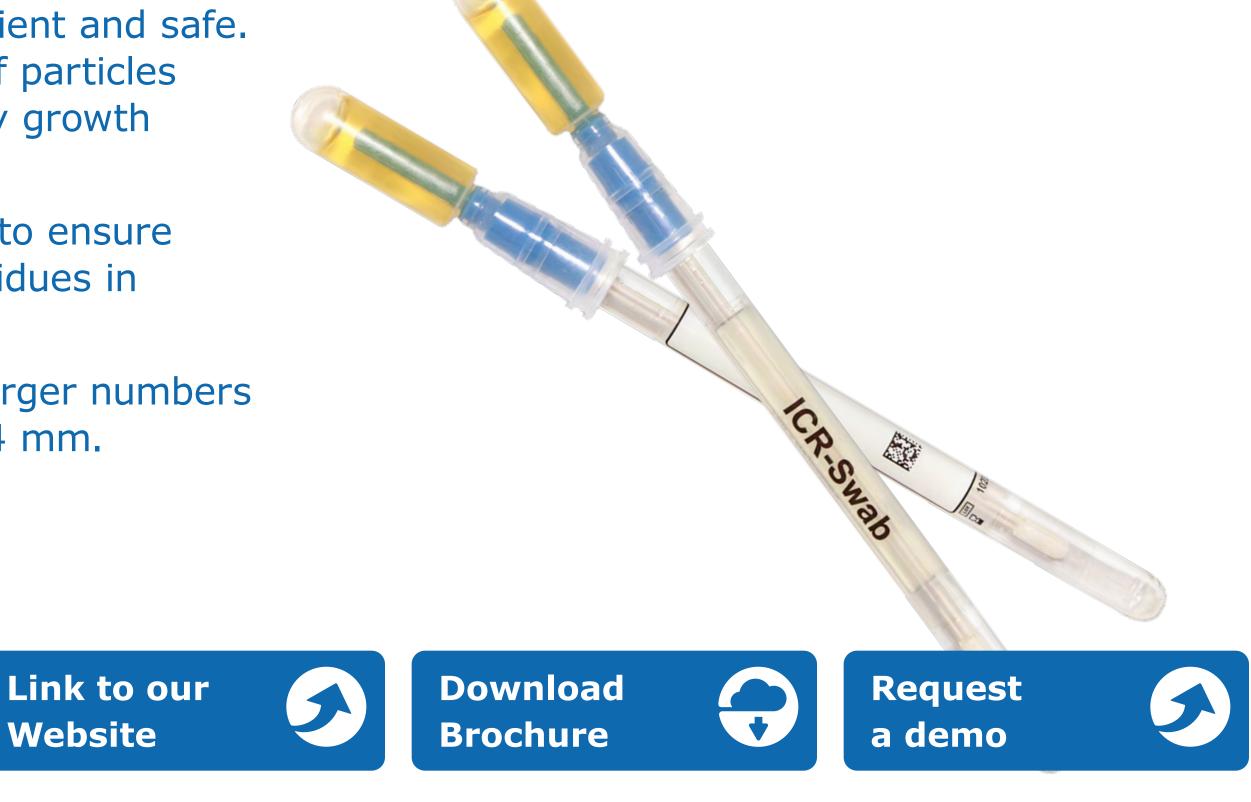
Related **Products** 

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.

Accessories





#### Description

**Benefits** 

Related Products



- 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

Accessories



#### Description

Benefits

**Related Products** 

#### **ICR/ICRplus Contact Plates**

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



Accessories

**Ordering Information** 

> Link to our Website





Description

**Benefits** 

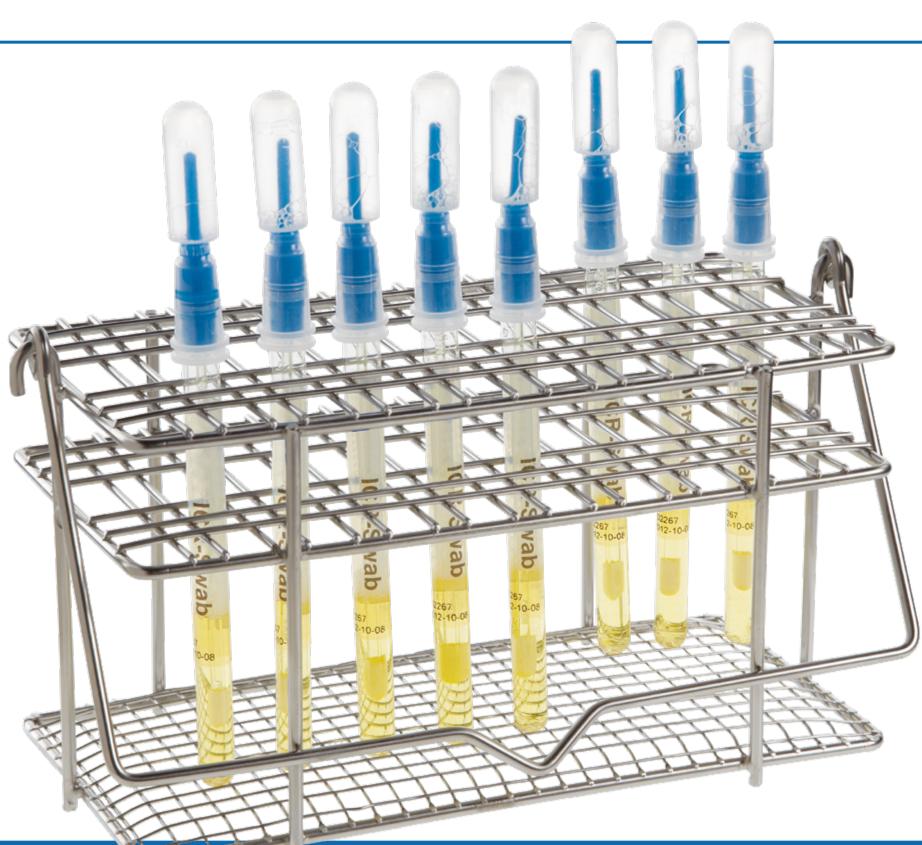
Related **Products** 

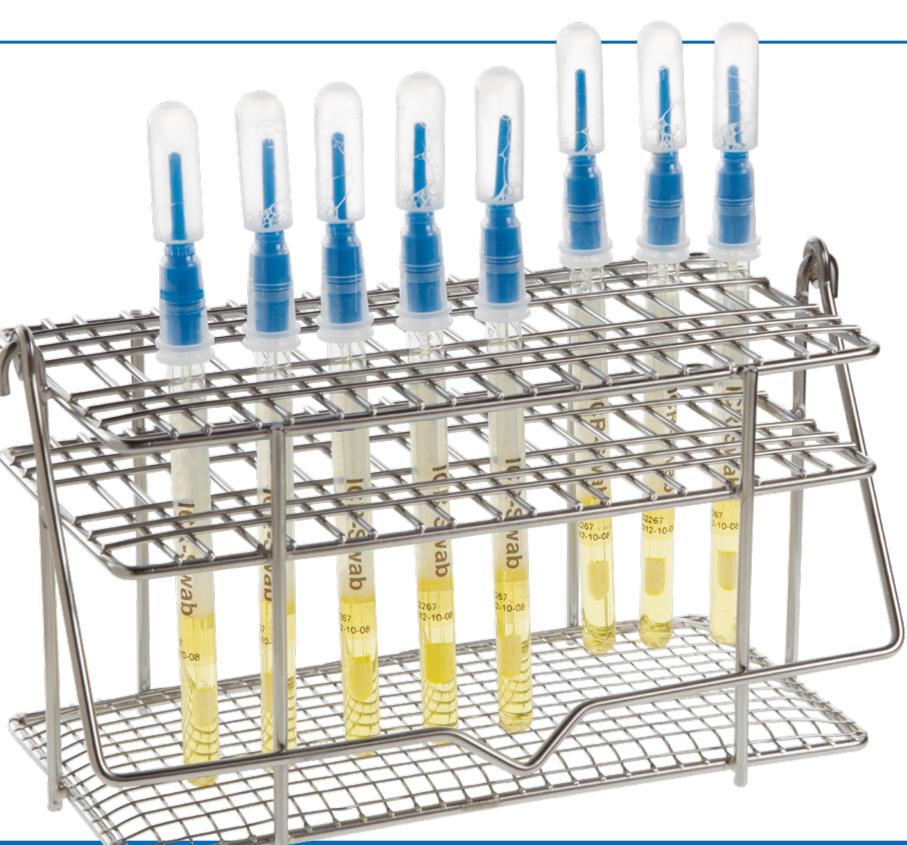
Product

Swab Rack

Description

Stainless steel





Accessories

Ordering Information

Ord. No.

1.46530.0001



ICP.Swab

10 ca

Description

**Benefits** 

Related Products

Product

**ICR Swabs** 

Accessories

| Content | Ord. No.     |
|---------|--------------|
| 100     | 1.46529.0100 |



## **IsoBag®** for rapid transfer of culture media plates into isolator

**Description** 

**Benefits** 

**Properties** 

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

**IsoBag**<sup>®</sup> speeds up environmental monitoring in aseptic production isolators as it provides ready-to-use gamma-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.

Related Products

#### Ordering Information

Download Brochure



Request a demo



Link to our Website



## **IsoBag**<sup>®</sup> for rapid transfer of culture media plates into isolator

Description

**Benefits** 

**Properties** 

- 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

#### Related **Products**





## **IsoBag®** for rapid transfer of culture media plates into isolator

#### Description

**Benefits** 

#### **Properties**



- Pre-packed DPTE BetaBag<sup>®</sup> with ready-to-use single-bagged contact or settle plates
- Beta port connectable to any 190 mm DPTE<sup>®</sup> Alpha port
- Finished product gamma-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

Related Products



# **IsoBag**<sup>®</sup> for rapid transfer of culture media plates into isolator

#### Description

**Benefits** 

**Properties** 



Related Products **Ordering Information** 

#### **ICR/ICRplus Contact Plates**

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







# **IsoBag**<sup>®</sup> for rapid transfer of culture media plates into isolator

#### Description

**Benefits** 

**Properties** 



Related Products **Ordering Information** 

#### **ICR/ICRplus Settle Plates**

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



Link to our Website







# **IsoBag**<sup>®</sup> for rapid transfer of culture media plates into isolator

#### Description

Benefits

**Properties** 



Related Products Ordering Information

#### **ICR Swabs**

Easy presence-absence test on difficult to access surfaces.











## **IsoBag**<sup>®</sup> for rapid transfer of culture media plates into isolator

Description

**Benefits** 

**Properties** 

| Product                                 | Description   | Ord. No.     |
|---|---|--------------|
| IsoBag <sup>®</sup> with Contact Plates | for 190 mm alpha-port                                   |              |
| IsoBag® TSA+LT Contact                  | 10 x 10 Contact Plates 146195, 55 mm 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 <sup>®</sup> with Settle Plates  | for 190 mm alpha-port                                   |              |
| IsoBag® TSA+LT Settle+                  | 8 x 10 lockable Settle Plates 146684, 90 mm, 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 <sup>®</sup> TSA Settle          | 90 mm Settle Plates 146001, irradiated                  | 1.46814.0080 |

Related Products



# **RT/RT+ 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 ssp., Escherichia coli, bile-tolerant Gram-negative bacteria, yeasts and molds.



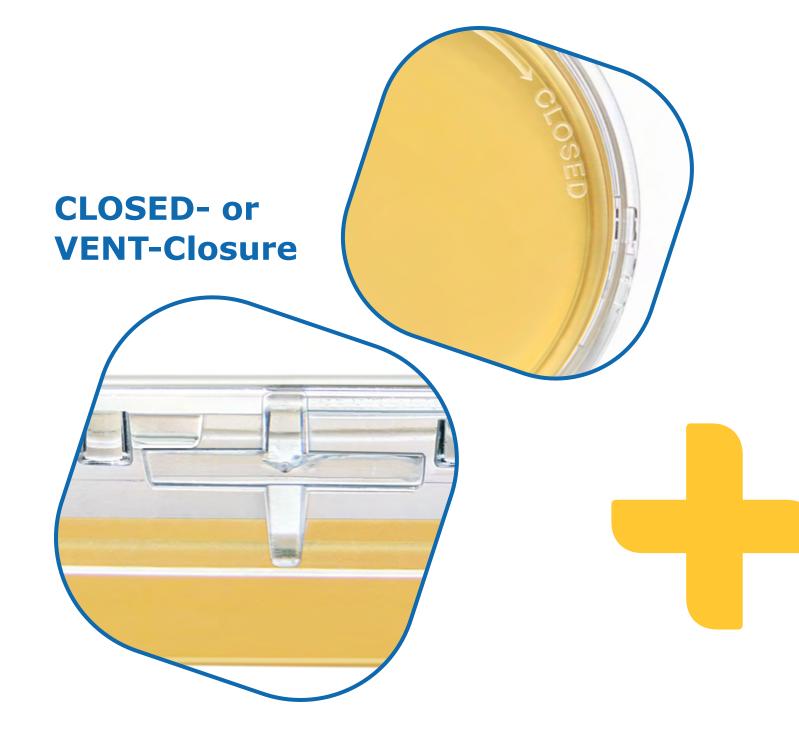


# **RT/RT+ Contact Plates** for microbial monitoring of air, surfaces and personnel

# Description

**Benefits** 

# Ordering Information



- **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

# • Controlled high-quality raw materials



# **RT/RT+ Contact Plates** for microbial monitoring of air, surfaces and personnel

Description

**Benefits** 

| Product                            | Description  | Content | Ord. No.     |
|------------------------------------|--|---------|--------------|
| <b>RT Contact Plates</b>           | 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 <sup>®</sup> 80, histidine                 | 20      | 1.46200.0020 |
| <b>RTplus Contact Plates</b>       | 55 mm, single-bagged, lockable   |         |              |
| SDA Contact+ Chloramphenicol – RT+ | lockable plate   | 20      | 1.46549.0020 |
| TSA Contact +LTH – RT+             | with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, lockable plate | 20      | 1.46554.0020 |







ICR/ICR+ **Settle Plates** 90 mm / 150 mm

**Cleanroom Grade** A/B



**IsoBag**<sup>®</sup> **Rapid Transfer Bag** 

**Surface & Personnel** Monitoring

Isolator / RABS Isolator / RABS





LI **Settle Plates** 90 mm

**Cleanroom Grade** C/D

# Description

**Benefits** 

Related **Products** 

- 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 *B*-lactam antibiotics.

# **ICRplus products:**

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





# Ordering Information

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

> Link to our Website



Download Brochure



Request a demo

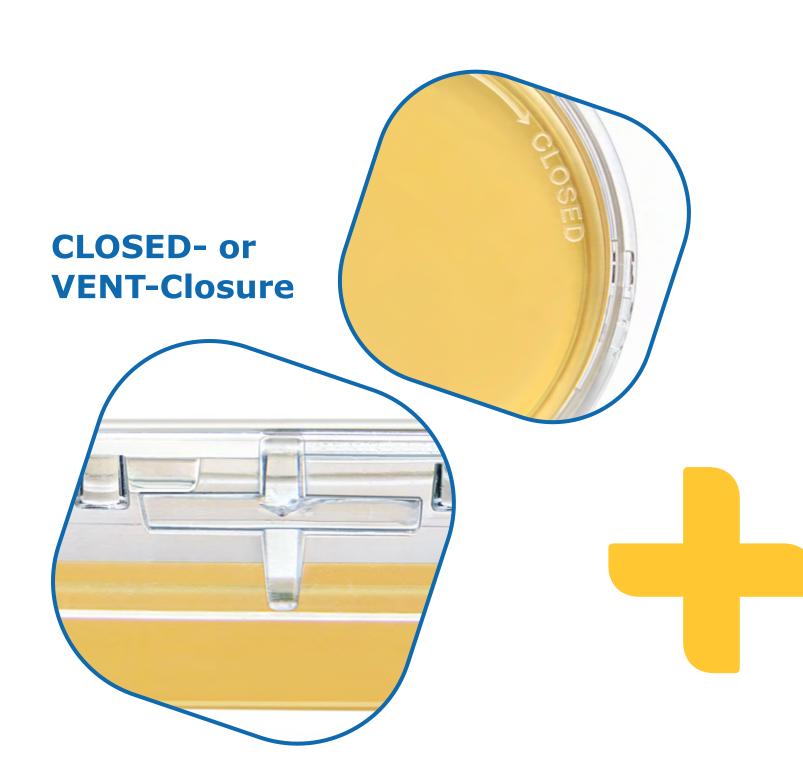




# Description

**Benefits** 

## Related **Products**



# **Maximum safety**

- Filled under aseptic conditions, gamma-irradiated in final packaging • Safe transport thanks to  $H_2O_2$ -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
- High filling volume to allow prolonged exposure and incubation

# **Additional benefits for ICRplus Contact Plates**

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



### **Further** Reading



### Description

**Benefits** 

Related **Products** 

# **ICR/ICRplus Contact Plates**

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













### Description

**Benefits** 

Related **Products** 

**MAS air sampler family** 

The industry standard for viable air sampling.



MAS-100 NT®



MAS-100 VF®





### Ordering Information



MAS-100 Iso MH®



MAS-100 Iso NT®

Link to our Website









### Description

**Benefits** 

Related Products







# Ordering Information

# **Additional information**

- TN4909 Air Sampling with pre-dried and fresh ICR agar plates
- AN2005 Anaerobic Monitoring using our lockable TSA+LTHTh ICR+ plates
- SDA AN



### Description

**Benefits** 

Related **Products** 

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



### Further Reading





# Description

**Benefits** 

Related **Products** 

| Product                             | Description  | Content | Ord. No.     |
|-------------------------------------|--|---------|--------------|
| ICR Settle Plates                   | 90 mm, triple-bagged, gamma-irradiated, non-lockable   |         |              |
| TSA +LTHThio sedi. – ICR            | with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, sodium   | 20      | 1.46786.0020 |
|                                     | thiosulfate  | 120     | 1.46786.0120 |
| TSA +LT+ Cephase – ICR              | TSA +LT+ Cephase – ICR with neutralizers lecithin, Tween <sup>®</sup> 80,<br>ß-lacatamases for inactivation of penicillins,<br>all generations of cephalosporins and carbapenems | 20      | 1.46076.0020 |
|                                     |  | 120     | 1.46076.0120 |
| TSA with Penase LTHThio sedi. – ICR | TSA with Penase LTHThio sedi. – ICR with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, sodium thiosulfate, penase for inactivation of penicillins                     | 20      | 1.46799.0020 |
| sodium t                            |  | 120     | 1.46799.0120 |
| ICR Settle Plates                   | 150 mm, triple-bagged, gamma-irradiated, non-lockable  |         |              |
| TSA LTHThio sedi. – ICR 150 mm      | 3 plates, each triple-bagged – with neutralizers lecithin,<br>Tween® 80, histidine, sodium thiosulfate   | 18      | 1.46820.0018 |



**Further** Reading





# Description

**Benefits** 

Related **Products** 

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



Further Reading





# Description

**Benefits** 

Related **Products** 

| Product                                      | Description   | Content | Ord. No.     |
|--|---|---------|--------------|
| ICRplus Settle Plates                        | 90 mm, triple-bagged, gamma-irradiated, lockable              |         |              |
| TSA with Penase LTHThio sedi. –<br>ICR+      | with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, | 20      | 1.46800.0020 |
|  | sodium thiosulfate  | 120     | 1.46800.0120 |
| Veg. Pept. Agar with LTHThio sedi. –<br>ICR+ | with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, | 20      | 1.46804.0020 |
|  | sodium thiosulfate  | 120     | 1.46804.0120 |



| Further |  |
|---------|--|
| Reading |  |





### Description

**Benefits** 

Related Products



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



Download Brochure



Request a demo





# Description

**Benefits** 

Related Products

- 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





### Description

**Benefits** 

Related **Products** 

**MAS air sampler family** 

The industry standard for viable air sampling.



MAS-100 NT®



MAS-100 VF®

Ordering Information



MAS-100 Iso MH<sup>®</sup>



MAS-100 Iso NT®

Link to our Website





Description

**Benefits** 

Related **Products** 

| Prod |  |
|------|--|
|      |  |
|      |  |

**LI Settle Plates** 

SDA – LI acc. EP

SDA + Chloramphenicol – LI 30 mL

SDA +LTHTh - LI 30 mL

TSA – LI 30 mL EP+USP

TSA +LTHTh - LI 30 mL

| Description   | Content | Ord. No.     |
|---|---------|--------------|
| 90 mm, single-bagged, non-lockable                            |         |              |
|   | 20      | 1.46028.0020 |
|   | 120     | 1.46028.0120 |
|   | 20      | 1.46003.0020 |
|   | 120     | 1.46003.0120 |
| with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, | 20      | 1.46052.0020 |
| sodium thiosulfate  | 120     | 1.46052.0120 |
|   | 20      | 1.46004.0020 |
|   | 120     | 1.46004.0120 |
| with neutralizers lecithin, Tween <sup>®</sup> 80, histidine, | 20      | 1.46002.0020 |
| sodium thiosulfate  | 120     | 1.46002.0120 |







Cleanroom Grade A/B

Cleanroom Grade C/D



### MAS-100 VF®

The easy to use air sampler

Cleanroom Grade A/B

Cleanroom Grade C/D





MAS-100 Iso MH<sup>®</sup> Pure innovation





MAS-100 Iso NT<sup>®</sup> For isolators

## **Isolator / RABS**

# MAS-100 NT $^{\mathbb{R}}$ The industry standard for viable air sampling

# Description

**Benefits** 

**Technical** specifications



The **MAS-100 NT**<sup>®</sup> is the world's best-selling high performance air sampler and the premium version of the portable and battery-operated MAS-100<sup>®</sup> instruments. It is used for microbial monitoring of air and stands for highest safety and sampling efficiency.



• Integrated mass flow sensor with temperature and pressure compensation regulate the flow rate to 100 SLPM

• Several models (e.g., with HEPA exhaust filter and/or devices suitable for explosion hazard areas) are available.



# Description

**Benefits** 

# **Technical** specifications



- Independently validated according to ISO 14698 (complies with EN 17141)
- Built-in air flow compensation guarantees precise and reproducible flow rates
- Suitable for ISO 5/GMP Grade A cleanrooms
- Minimized turbulences in unidirectional air flows
- Compatible with 90 mm Petri dishes, 55 mm contact plates and other plate formats
- Automated calibration traceable to ISO 17025 / NIST
- Suitable for disinfection with vaporized and gaseous hydrogen peroxide and many industry-standard disinfectant

Swiveling head for horizontal unidirectional air flows

Related **Products** 

# Accessories



Description

**Benefits** 

Technical specifications

|  | General                              |                      |
|--|--------------------------------------|----------------------|
|  | Operation principle                  | Sieve impaction (Ar  |
|  | Flow rate                            | Default: 100 SLPM    |
|  | Flow regulation                      | In-built mass flow s |
|  | Sample volumes                       | Selectable from 10   |
|  | Sequential Sampling Mode (Intervals) | 40 to 2000 liters in |
|  | Delay function                       | 1 to 120 min         |
|  | Nominal d <sub>50</sub> value        | 1.1 µm at 100 SLPN   |
|  | Biological efficiency                | ~ 83% (independer    |
|  | Particle generation                  | Compliant with ISO   |

| sa   | mpling              |             |                         |  |  |
|--|---------------------|-------------|-------------------------|--|--|
| 5  | Related<br>Products | Accessories | Ordering<br>Information |  |  |
|  |                     |             |                         |  |  |
|  |                     |             |                         |  |  |
| nder   | sen Sampler)        |             |                         |  |  |
| ± 2.5%   |                     |             |                         |  |  |
| sens   | or                  |             |                         |  |  |
| to 2000 liters   Preset: 50, 100, 250, 500 & 1000 liters     |                     |             |                         |  |  |
| 2-50 fractions up to 23:59 hours                             |                     |             |                         |  |  |
|  |                     |             |                         |  |  |
| M (confirmed by independent validation study acc. ISO 14698) |                     |             |                         |  |  |
| nt validation study acc. ISO 14698)                          |                     |             |                         |  |  |

O 14644 1, Class 5





# Description

**Benefits** 

Technical specifications

| Housing                |                       |
|------------------------|-----------------------|
| Material               | Anodized aluminum     |
| Dimensions (H x W x L) | 270 x 109 x 170 mr    |
| Weight                 | 2.37 kg (with perfor  |
| Tripod screw thread    | 3/8" UNC (and 1/4" UN |
| Perforated lid         |                       |
| Material               | Anodized aluminum     |
| Dimensions (D x H)     | Ø 109 x 32 mm         |
| Weight                 | 190 g                 |
| Lid geometry           | Default: 300 x 0.6 r  |
| Sterilization          | Autoclaving; dry he   |
| Others                 |                       |
| Battery capacity       | Approx. 5.5h or 33.   |
| ATEX certification     | II 3G Ex ec IIC T4 C  |
|                        |                       |

| sa   | mpling                    |  |                         |  |  |
|--|---------------------------|--|-------------------------|--|--|
|  | Related<br>Products       | Accessories                            | Ordering<br>Information |  |  |
|  |                           |  |                         |  |  |
|  |                           |  |                         |  |  |
| 1  |                           |  |                         |  |  |
| m (v   | with handle)              |  |                         |  |  |
| rate   | d lid)                    |  |                         |  |  |
| NC i   | nsert), for use with stan | dard camera tripod                     |                         |  |  |
|  |                           |  |                         |  |  |
| 1  |                           |  |                         |  |  |
|  |                           |  |                         |  |  |
|  |                           |  |                         |  |  |
| mm   |                           |  |                         |  |  |
| at   |                           |  |                         |  |  |
|  |                           |  |                         |  |  |
| .000   | liters (2 h or 12.000 lit | ers for MAS-100 NT $Ex^{\mathbb{R}}$ v | versions)               |  |  |
| Gc (for MAS-100 NT Ex <sup>®</sup> version only) |                           |  |                         |  |  |
| 0  |                           |  |                         |  |  |



### Description

**Benefits** 

**Technical** specifications





Related **Products** 

Accessories

Ordering Information

### **ICR/ICRplus Contact Plates**

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

> Link to our Website







# Description

Benefits

**Technical** specifications

| Product                        | Description   | Ord. No.     |
|--------------------------------|---|--------------|
| Perforated lid                 | 300 holes x 0.6 mm, aluminum  | 1.09195.0001 |
| Perforated lid                 | 300 holes x 0.6 mm, aluminum, edge protection (MTO)*  | 1.19363.0001 |
| Dust cover                     | Aluminum  | 1.09084.0001 |
| Battery charger with Lemo plug | For all MAS-100 NT Ex <sup>®</sup> and MAS-100 NT <sup>®</sup> with serial numbers < 110499 | 1.09200.0001 |
| Battery charger with DC plug   | For MAS-100 NT <sup>®</sup> with serial number $\geq$ 110500                                | 1.19133.0001 |
| Tripod                         | For sampling in heights (88 - 250 cm)   | 1.09326.0001 |
| Quick Change tripod adapter    | For quick adaption of MAS-100 NT <sup>®</sup> to tripods without screwing                   | 1.09223.0001 |
| Mounting kit for filter        | For upgrading MAS-100 NT <sup>®</sup> /Ex <sup>®</sup> with HEPA exhaust filter             | 1.17276.0001 |
| HEPA H13 replacement filter    | Ø 74 mm; Filter efficiency H13  | 1.17278.0001 |
| Tube adapter                   | For sampling hardly to access sampling locations, can be used with tubing                   | 1.09224.0001 |

| S | Related<br>Products | Accessories | Ordering<br>Information |
|---|---------------------|-------------|-------------------------|
|   |                     |             |                         |





Descr

| ription  | Benefits  | Technical specifications                    | Related<br>Products   | Accessories | Ordering<br>Information |
|--|---|---|-----------------------|-------------|-------------------------|
| Product  |   | Description                                 |                       |             | Ord. No.                |
| Perforated lie   | d contact plates  | 300 holes x 0.6 mm, a for use with 55 mm IC | •                     |             | 1.19149.0001            |
| Contact plate  | e adapter   | For centering and fixing                    | g 55 mm contact plate | es          | 1.09214.0001            |
| RapidMicroB<br>with clamps   | RapidMicroBio perforated lid 300 holes x 0.6 mm, aluminum<br>with clamps with clamps to center GD plates (MTO)* |   | 1.17316.0001          |             |                         |
| 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,<br>for use with 55 mm ICR contact plates (non-lockable only) |   | 1.09213.0001                                |                       |             |                         |
| RapidMicroBio perforated lid 400 holes x 0.7 mm, aluminum<br>with clamps with clamps for centering GD plates (MTO)*      |   | 1.19166.0001                                |                       |             |                         |
| RapidMicroBio perforated lid 400 holes x 0.7 mm, aluminum for GD plates (MTO)* <b>1</b>                                  |   |   | 1.17318.0001          |             |                         |
| *MTO product   | a ava nat in ataak  | as mind land times                          |                       |             |                         |

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



### MAS-100 NT® The industry standard for viable air sampling Ordering Information **Technical** Related Accessories Benefits specifications **Products**

| Descrip | rinh |
|---------|------|
|         |      |

| Product                                | Description   | Ord. No.     |
|--|---|--------------|
| MAS-100 NT®                            | Standard microbial air sampler  | 1.09191.0001 |
| MAS-100 NT <sup>®</sup> with Filter    | MAS-100 NT <sup>®</sup> (built-in H13 filter)   | 1.17274.0001 |
| MAS-100 NT Ex®                         | For explosion hazard areas  | 1.09194.0001 |
| MAS-100 NT Ex <sup>®</sup> with Filter | For explosion hazard areas (built-in H13 filter) (MTO)*   | 1.17275.0001 |
| Scope of delivery                      | MAS-100 NT® microbial air sampler including:<br>1 x perforated lid (300 x 0.6 mm)<br>1 x dust cover<br>1 x Allan key No. 3<br>1 x USB cable 1.5 m<br>1 x battery charger with DC plug and regional plug adapters (U<br>1 x USB stick with manuals and Feller correction table<br>calibration certificates for MAS-100 NT®/NT Ex® and calibration<br>1 x transportation case |              |

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



### Description

**Benefits** 

**Technical** specification



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

| IS | Related<br>Products | Accessories | Ordering<br>Information |
|----|---------------------|-------------|-------------------------|

- The **MAS-100 VF**<sup>®</sup> is a portable and battery-operated microbial air sampler. It has the same collection efficiency as the premium version MAS-100 NT<sup>®</sup>.







# Description

**Benefits** 

# **Technical** specifications



- 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

**Single touch slide control** 

| Related<br>Products | Accessories | Ordering<br>Information |
|---------------------|-------------|-------------------------|





Description

**Benefits** 

Technical specifications

| General                       |                       |
|-------------------------------|-----------------------|
| Operation principle           | Sieve Impaction       |
| Flow rate                     | Default: 100 LPM ±    |
| Flow regulation               | Blower Speed Regu     |
| Sample volumes                | Selectable from 10    |
| Delay function                | 1 to 120 min          |
| Nominal d <sub>50</sub> value | 1.1 µm at 100 LPM     |
| Biological efficiency         | ~ 77% (independer     |
| Housing                       |                       |
| Material                      | Anodized aluminum     |
| Dimensions (H x W x L)        | 179 x 109 x 148 m     |
| Weight                        | 1.92 kg (with perfo   |
| Tripod screw thread           | 3/8" UNC (and 1/4" UI |

| 5      | Related<br>Products        | Accessories               | Ordering<br>Information |
|--------|----------------------------|---------------------------|-------------------------|
|        |                            |                           |                         |
|        |                            |                           |                         |
| = 4%   |                            |                           |                         |
| latior | า                          |                           |                         |
| to 20  | 000 liters   Preset: 50, 1 | L00, 250, 500 & 1000 lite | ers                     |
|        |                            |                           |                         |
| (con   | firmed by independent v    | validation study acc. ISO | 14698)                  |
| nt va  | lidation study acc. ISO    | 14698)                    |                         |
|        |                            |                           |                         |
| า      |                            |                           |                         |
| ım (w  | ith handle)                |                           |                         |
| ratec  | l lid)                     |                           |                         |
| NC in  | sert), for use with stand  | dard camera tripod        |                         |
|        |                            |                           |                         |



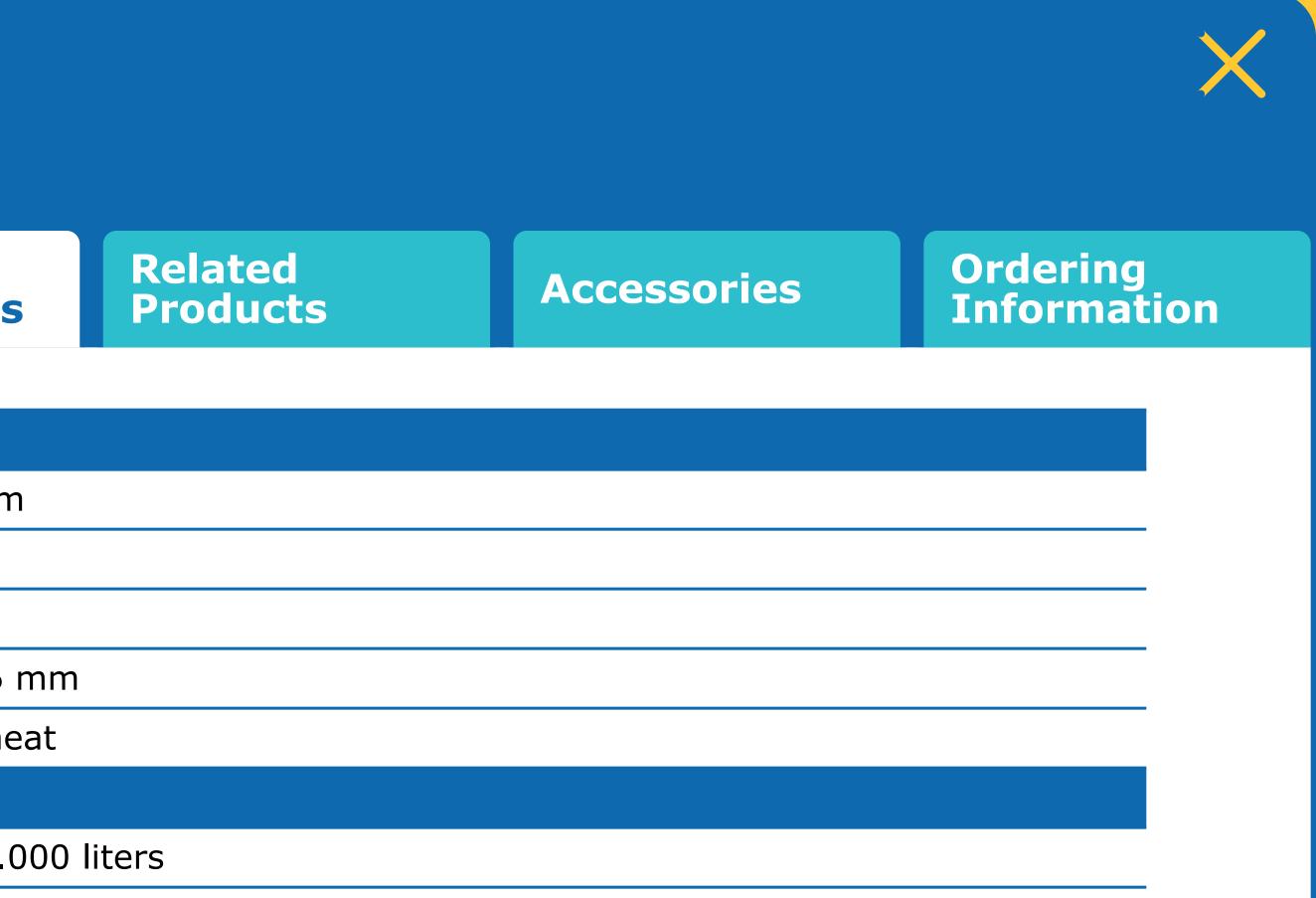


# Description

**Benefits** 

**Technical** specifications

| 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 i |
| Sterilization                  | Autoclaving; dry he  |
| Others                         |                      |
| Battery capacity               | Approx. 5 h or 30.0  |



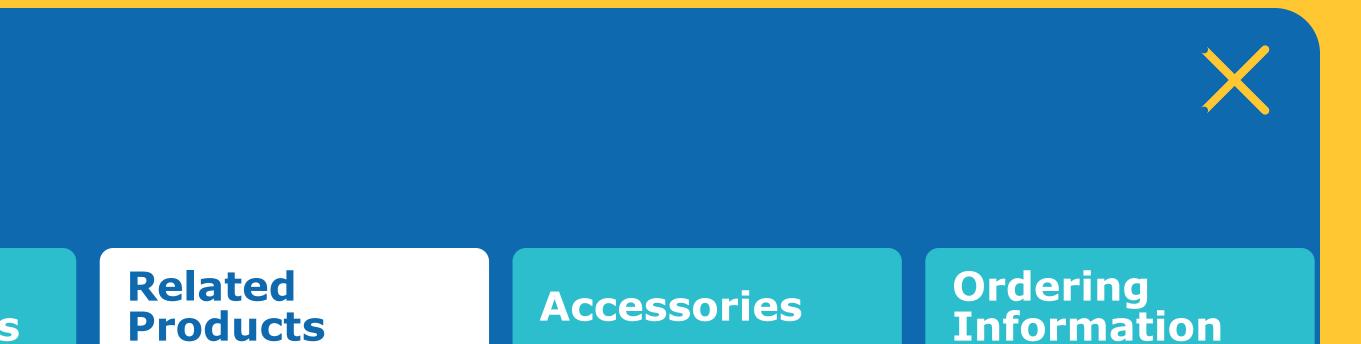
 $\bigcirc$ 

### Description

**Benefits** 

Technical specifications





### **ICR/ICRplus Settle Plates**

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



Link to our Website



# Description

**Benefits** 

Technical specifications

| 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<br>(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 <sup>®</sup> to tripods without screwing | 1.09223.0001 |
| Tube adapter                  | For sampling hardly to access sampling locations, can be used with tubing | 1.09224.0001 |

| Related<br>Products | Accessories | Ordering<br>Information |
|---------------------|-------------|-------------------------|





# Description

**Benefits** 

Technical specifications

| 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,<br>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

| Related<br>Products | Accessories | Ordering<br>Information |
|---------------------|-------------|-------------------------|





Description

**Benefits** 

Technical specifications

| Product           | Description   |
|-------------------|---|
| MAS-100 VF®       | Microbial air sample  |
| Scope of delivery | MAS-100 VF® mic<br>1 x perforated lid (3<br>1 x dust cover (plas<br>1 x Allan key No. 3<br>1 x USB cable 1.5 r<br>1 x battery charger<br>1 x USB stick with r<br>calibration certificat<br>1 x transportation o |

| 5  | Related<br>Products                              | Accessories | Ordering<br>Information |
|----|--|-------------|-------------------------|
|    |  |             | Ord. No.                |
| er |  |             | 1.17103.0001            |
|    | i <mark>al air sampler inclu</mark><br>x 0.6 mm) | ding:       |                         |

m er with DC plug and regional plug adapters manuals and Feller correction table ates for MAS-100 VF<sup>®</sup> and calibration device case



# MAS-100 Iso MH® Pure innovation

**Description** 

**Benefits** 

Technical specifications

The **MAS-100 Iso MH**<sup>®</sup> 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<sup>®</sup>. 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



### Related Products

# Accessories

### Ordering Information



Link to our Website



Download Brochure



Request a demo





# MAS-100 Iso MH® Pure innovation

# Description

# **Benefits**

## **Technical** specifications

- 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)
- SLPM
- Various stainless steel sampling head configurations for 90 mm plates or other plate formats
- Multiple options for combining filters (in-line/exhaust)

**Products** 

 Automated calibration with MAS-100 Regulus traceable to ISO 17025 or NIST

**Unique double** valve system

| Related | Accessories | Ordering |          |  |
|---------|-------------|----------|----------|--|
|         |             |          |          |  |
|         |             |          | <b>*</b> |  |

Accessories

Built-in air flow compensation for precise, reproducible flow rate of 100



### MAS-100 Iso MH® Pur

Descri

| e innovation                                 |           |  |                     |             |                         |  |  |
|--|-----------|--|---------------------|-------------|-------------------------|--|--|
| ription Benefits                             |           | Technical<br>specifications  | Related<br>Products | Accessories | Ordering<br>Information |  |  |
| General                                      |           |  |                     |             |                         |  |  |
| Operation p                                  | principle | Sieve Impaction (Andersen Sampler)   |                     |             |                         |  |  |
| Flow rate                                    |           | Default: 100 SLPM ± 2.5%   |                     |             |                         |  |  |
| Flow regula                                  | tion      | In-built mass flow sensor  |                     |             |                         |  |  |
| Sample vol                                   | umes      | Selectable from 10 to 2000 liters   Preset: 50, 100, 250, 500 & 1000 liters        |                     |             |                         |  |  |
| SQS (sequential sampling mode,<br>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 funct                                  | ion       | 1 to 120 min   |                     |             |                         |  |  |
| Nominal $d_{50}$                             | value     | 1.1 $\mu$ m at 100 SLPM (confirmed by independent validation study acc. ISO 14698) |                     |             |                         |  |  |
| Biological e                                 | fficiency | ~ 78% (independent validation study acc. ISO 14698)                                |                     |             |                         |  |  |





Description

**Benefits** 

# Technical specifications

| Housing                          |                     |
|----------------------------------|---------------------|
| Material                         | Side walls: anodize |
| Dimensions (H x W x L)           | 160 x 230 x 283 m   |
| Weight                           | 7.5 kg              |
| Sampling Head with perforated li | d                   |
| Material                         | Stainless Steel     |
| Dimensions (D x H)               | Ø 109 x 90 mm       |
| Weight                           | 1.5 kg              |
| Lid geometry                     | Default: 300 x 0.6  |
| Sterilization                    | Autoclaving; dry he |
| Power                            |                     |
| Input external power supply      | 110-240 V AC, 0.7-  |
| Input instrument                 | 24 V DC ± 5%, Max   |
|                                  |                     |

| Related<br>Products        | Accessories              | Ordering<br>Information |
|----------------------------|--------------------------|-------------------------|
|                            |                          |                         |
|                            |                          |                         |
| ed aluminum; body: electro | polished stainless steel |                         |
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| -1.5 A / 47-63 Hz          |                          |                         |
| x. Limits: 2.7 A and 65 W  |                          |                         |
|                            |                          |                         |
|                            |                          |                         |



#### Description

**Benefits** 

Technical specifications





Accessories

Ordering Information

#### **IsoBag® rapid transfer bag**

A unique transportation and packaging bag as a reliable and easy way to have environmental monitoring plates right at hand in the isolator.









Description

**Benefits** 

### Technical specifications

| 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:<br>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

| 5 | Related<br>Products | Accessories | Ordering<br>Information |
|---|---------------------|-------------|-------------------------|





Description

**Benefits** 

# Technical specifications

| Description   | Ord. No.   |
|---|--|
| 400 holes x 0.7 mm, edge-protected, stainless steel                                   | 1.09222.0001   |
| Stainless steel, for Growth Direct EM Cassettes                                       | 1.17319.0001   |
| 300 holes x 0.6 mm, stainless steel for Growth Direct Cassettes                       | 1.17314.0001   |
| Hydrophobic 0.2 µm, 5''   | KTGRA05TT1   |
| Hydrophobic 0.2 µm, 10''  | KTGRA10TT1   |
| For testing tightness of installation   | 1.17085.0001   |
| RS232 connection for connection of calibration device<br>MAS-100 <sup>®</sup> Regulus | 1.17098.0001   |
| Converts ProfiBus to ProfiNet interface   | 1.17290.0001   |
| Stainless steel with 2 tri-clamps and silicone gaskets                                | 1.17083.0001   |
| To facilitate mounting of sampling heads  | 1.09440.0001   |
|   | <ul> <li>400 holes x 0.7 mm, edge-protected, stainless steel</li> <li>Stainless steel, for Growth Direct EM Cassettes</li> <li>300 holes x 0.6 mm, stainless steel for Growth Direct Cassettes</li> <li>Hydrophobic 0.2 μm, 5"</li> <li>Hydrophobic 0.2 μm, 10"</li> <li>For testing tightness of installation</li> <li>RS232 connection for connection of calibration device<br/>MAS-100® Regulus</li> <li>Converts ProfiBus to ProfiNet interface</li> <li>Stainless steel with 2 tri-clamps and silicone gaskets</li> </ul> |

Please mind lead times for accessories

| 3 | Related<br>Products | Accessories | Ordering<br>Information |
|---|---------------------|-------------|-------------------------|



| <b>Description Benefits</b> | Technical specifications | Related<br>Products | Accessories | Ordering<br>Information |
|-----------------------------|--------------------------|---------------------|-------------|-------------------------|
|-----------------------------|--------------------------|---------------------|-------------|-------------------------|

| Product               | Interface         | No. of<br>heads | Ord. No.           | Interface    | No. of<br>heads | Ord. No.     |
|-----------------------|-------------------|-----------------|--------------------|--------------|-----------------|--------------|
| MAS-100 Iso MH®       | Standard*         | 1               | 1.17174.0001       | ProfiBus*    | 1               | 1.17177.0001 |
| microbial air sampler |                   | 2               | 1.17118.0001       |              | 2               | 1.17144.0001 |
|                       | <b>Ethernet</b> * | 3               | 1.17146.0001       | ProfiNet*    | 3               | 1.17147.0001 |
|                       |                   | 4               | 1.17149.0001       |              | 4               | 1.17155.0001 |
|                       |                   | 1               | 1.17178.0001       |              | 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     | <b>MAS-100 I</b>  | so NT® mie      | crobial air sample | r including: |                 |              |

MAS-100 Iso NT<sup>®</sup> 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



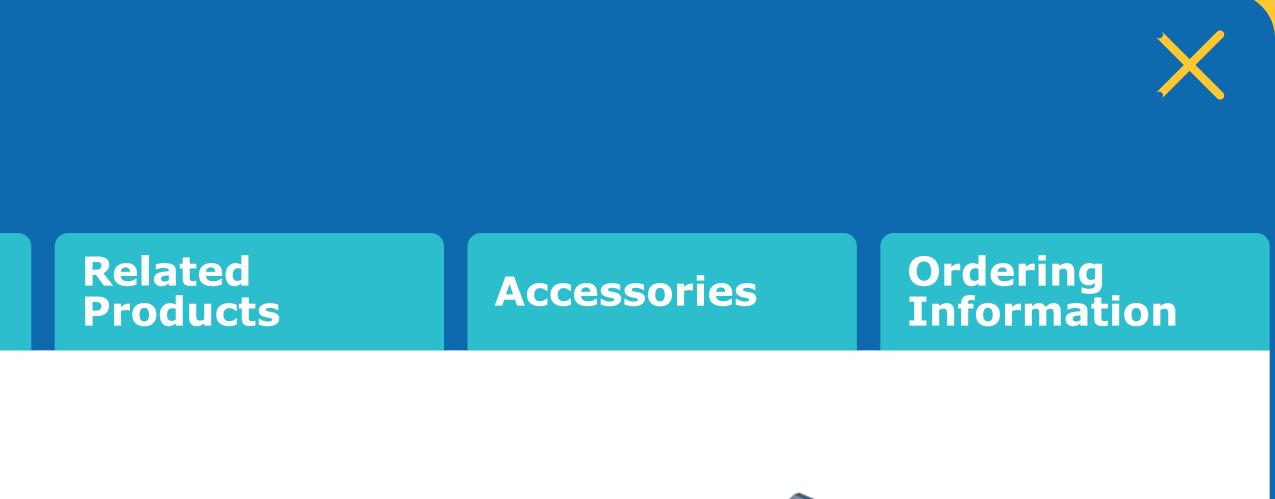
Description

**Benefits** 

**Technical** specifications

The **MAS-100 Iso NT**<sup>®</sup> 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<sup>®</sup>. 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



Website



Brochure







#### Description

**Benefits** 

#### **Technical** specifications



- 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)
- 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 traceable to ISO 17025 or NIST

| Related<br>Products | Accessories | Ordering<br>Information |
|---------------------|-------------|-------------------------|

Built-in air flow compensation for precise, reproducible flow rate



### MAS-100 Iso NT® For

Descr

| isolato   | rs        |  |                     |             |                         |  |  |
|---|-----------|--|---------------------|-------------|-------------------------|--|--|
| ription Benefits  |           | Technical<br>specifications  | Related<br>Products | Accessories | Ordering<br>Information |  |  |
| General   |           |  |                     |             |                         |  |  |
| Operation p   | orinciple | Sieve Impaction (Andersen Sampler)   |                     |             |                         |  |  |
| Flow rate   |           | Default: 100 SLPM ± 2.5%   |                     |             |                         |  |  |
| Flow regula   | tion      | In-built mass flow sensor  |                     |             |                         |  |  |
| Sample vol  | umes      | Selectable from 10 to 2000 liters   Preset: 50, 100, 250, 500 & 1000 liters        |                     |             |                         |  |  |
| SQS (sequential sampling mode,<br>Intervals)                              |           | 40 to 2000 liters in 2-50 fractions up to 23:59 hours                              |                     |             |                         |  |  |
| Delay funct   | ion       | 1 to 120 min   |                     |             |                         |  |  |
| Nominal $d_{50}$  | value     | 1.1 $\mu$ m at 100 SLPM (confirmed by independent validation study acc. ISO 14698) |                     |             |                         |  |  |
| Biological efficiency ~ 78% (independent validation study acc. ISO 14698) |           |  |                     |             |                         |  |  |





Description

**Benefits** 

# Technical specifications

| Housing                           |                     |
|-----------------------------------|---------------------|
| Material                          | Side walls: anodize |
| Dimensions (H x W x L)            | 160 x 230 x 283 m   |
| 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  |
| Sterilization                     | Autoclaving; dry he |
| Power                             |                     |
| Input external power supply       | 110-240 V AC, 0.7-  |
| Input instrument                  | 24 V DC ± 5%, Max   |
|                                   |                     |

| 5      | Related<br>Products     | Accessories             | Ordering<br>Information |
|--------|-------------------------|-------------------------|-------------------------|
|        |                         |                         |                         |
|        |                         |                         |                         |
| ed alı | uminum; body: electro p | olished stainless steel |                         |
| nm     |                         |                         |                         |
|        |                         |                         |                         |
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| x. Lii | mits: 2.7 A and 65 W    |                         |                         |
| 0      |                         |                         |                         |
|        |                         |                         |                         |



#### Description

**Benefits** 

Technical specifications





Accessories

Ordering Information

#### **IsoBag® rapid transfer bag**

A unique transportation and packaging bag as a reliable and easy way to have environmental monitoring plates right at hand in the isolator.









Description

**Benefits** 

## Technical specifications

| 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:<br>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 <sup>®</sup> 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

| 5 | Related<br>Products | Accessories | Ordering<br>Information |
|---|---------------------|-------------|-------------------------|





Description

**Benefits** 

## Technical specifications

| 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<br>MAS-100 <sup>®</sup> 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

| 3 | Related<br>Products | Accessories | Ordering<br>Information |
|---|---------------------|-------------|-------------------------|



Description

**Benefits** 

**Technical** specifications

Product

MAS-100 Iso NT®

Description

Microbial air sample

**Scope of delivery** 

**MAS-100 Iso NT<sup>®</sup> microbial air sampler including:** MAS-100 Iso NT<sup>®</sup> 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

| S | Related<br>Products | Accessories | Ordering<br>Information |
|---|---------------------|-------------|-------------------------|

|     | Interface | No. of heads | Ord. No.     |
|-----|-----------|--------------|--------------|
| ler | Standard  | 1            | 1.09168.0001 |
|     | Ethernet  | 1            | 1.09174.0001 |
|     | ProfiBus* | 1            | 1.09173.0001 |
|     | ProfiNet* | 1            | 1.17291.0001 |







MAS-100 ATMOS<sup>®</sup> The NEW microbial compressed gas sampler

Cleanroom Grade A/B

Cleanroom Grade C/D







### MAS-100 ATMOS® The NEW microbial compressed gas sampler

Description

Benefits

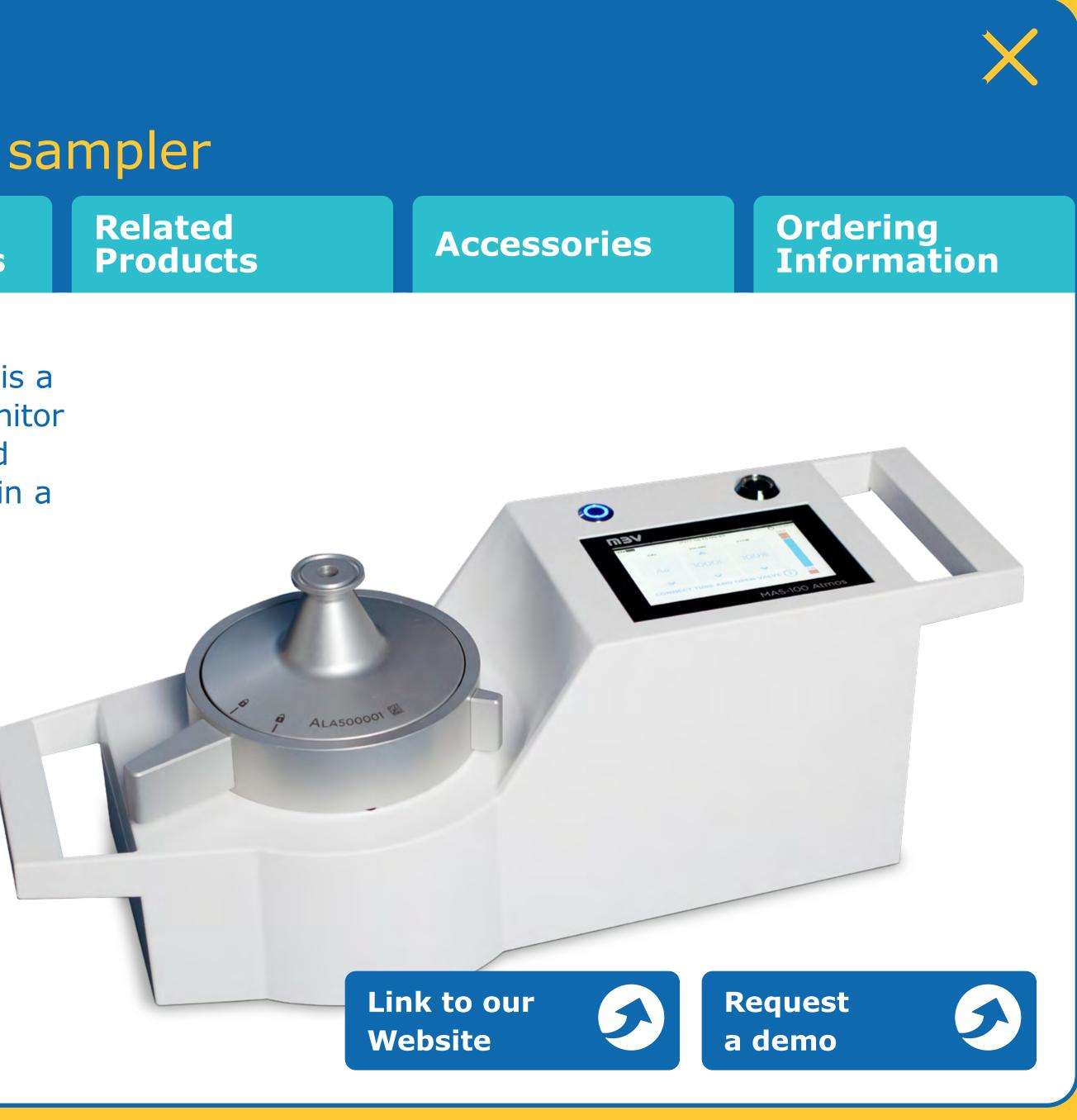
**Technical** specifications

The **MAS-100 Atmos**<sup>®</sup> 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 liter the **MAS-100 Atmos**<sup>®</sup> has the identical impaction speed and D50 value as the MAS-100 NT<sup>®</sup>.

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





### MAS-100 ATMOS® The NEW microbial compressed gas sampler

#### Description

**Benefits** 

#### **Technical** specifications

### **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 fals 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





Related **Products** 

### Accessories

Ordering Information



### MAS-100 ATMOS® The NEW microbial compressed gas

#### Description

**Benefits** 

### Technical specifications

| General                       |  |
|-------------------------------|--|
| Operation principle           | Sieve Impaction                          |
| Gas types                     | Default: compresse<br>customized gas typ |
| Pressure range                | 1.2 to 7 bar.a ± 2%                      |
| Flow rate                     | Default: 100 LPM ±                       |
| Flow regulation               | Mass-flow sensor                         |
| Sample volumes                | Selectable from 50                       |
| Nominal d <sub>50</sub> value | 1.1 µm at 100 LPM                        |
| Housing                       |  |
| Material                      | Injection-molded hi and texture varnish  |
| Dimensions (H x W x L)        | 180 x 210 x 500 m                        |
| Weight                        | 7.3 kg (with sampli                      |
|                               |  |

| Related<br>Products     | Accessories  | Ordering<br>Informatio |
|-------------------------|--|------------------------|
|                         |  |                        |
|                         |  |                        |
|                         |  |                        |
|                         | rbon dioxide (CO <sub>2</sub> ), Argon<br>mmable gases) if gas facto |                        |
| % (17.4 to 101 psi)     |  |                        |
| = 5%   Optional: 50 LPI | M ± 5%   |                        |
|                         |  |                        |
| to 3000 normal liters ( | NL)   Preset: 50, 100, 25  | 0, 500 & 1000 NL       |
|                         |  |                        |
|                         |  |                        |
| igh-performance polyst  | yrene with plastic primer  |                        |
| m (with handle)         |  |                        |
|                         |  |                        |



### MAS-100 ATMOS® The NEW microbial compressed gas

#### Description

**Benefits** 

## Technical specifications

| Perforated lid        |                      |
|-----------------------|----------------------|
| Material              | Anodized aluminum    |
| Dimensions (D x H)    | Ø 109 x 90 mm        |
| Weight                | 190 g                |
| Lid geometry          | Default: 300 x 0.6 r |
| Sterilization         | Autoclaving; dry he  |
| Others                |                      |
| Battery capacity      | Approx. 2 to 5h dep  |
| Operating temperature | +5 to +45°C          |
| Sound level           | < 80 dB at highest   |

| sa     | mpler                     |                   |                         |
|--------|---------------------------|-------------------|-------------------------|
| 5      | Related<br>Products       | Accessories       | Ordering<br>Information |
|        |                           |                   |                         |
|        |                           |                   |                         |
| ו (blu | le)                       |                   |                         |
|        |                           |                   |                         |
|        |                           |                   |                         |
| mm     |                           |                   |                         |
| eat    |                           |                   |                         |
|        |                           |                   |                         |
| pend   | ling on chosen settings a | nd pressure range |                         |
|        |                           |                   |                         |

pressure point (7 bar.a)





### MAS-100 ATMOS® The NEW microbial compressed gas sampler

#### Description

**Benefits** 

**Technical** specifications





Related **Products** 

### Accessories

Ordering Information

#### **ICR/ICRplus Settle Plates**

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



Link to our Website





## MAS-100 ATMOS® The

Descri

|                             | nicrobial com                       | pressed gas sa                                       | ampler                            |                  |                        |
|-----------------------------|-------------------------------------|--|-----------------------------------|------------------|------------------------|
| iption                      | Benefits                            | Technical<br>specifications                          | Related<br>Products               | Accessories      | Ordering<br>Informatio |
| Product                     |                                     | Description  |                                   |                  | Ord. No.               |
| Sampling he with perfora    | ead Atmos<br>Ited lid 300 x 0.6 mm  | Default version:<br>provides $D_{50}$ of 1.1 $\mu$ m | at 100 liters/min                 |                  | 1.17357.0001           |
| Sampling he with perfora    | ead Atmos<br>Ited lid 300 x 0.47 mm | Provides $D_{50}$ of 1.1 $\mu m$                     | at 50 liters/min                  |                  | 1.17363.0001           |
| Pressure tub<br>with TC Con | pe Atmos 2 m<br>nector              | PTFE Tube with 3/8'' fe<br>with connector to instr   | emale connector to gas s<br>ument | supply           | 1.17354.0001           |
| Gas exhaust<br>with TC Con  | t tube Atmos 5 m<br>nector          | PVC tube Ø 50 mm, sta                                | ainless steel connector a         | and tri-clamp    | 1.17349.0001           |
| Adapter gas<br>for MAS-100  | exhaust tube<br>O Atmos®            | Stainless steel adapter                              | for self-assembly of ga           | s exhaust tubing | 1.17348.0001           |
| Hardware ke<br>for MAS-100  |                                     | Re-writable for individu                             | ual user login                    |                  | 1.17333.0001           |
| Wheeled tra<br>for MAS-100  | •                                   | For safe transportation                              |                                   |                  | 1.17334.0001           |
| Diasco mind l               | and times for accessories           |  |                                   |                  |                        |

Please mind lead times for accessories





### MAS-100 ATMOS® The NEW microbial compressed gas

Description

**Benefits** 

Technical specifications

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

Please mind lead times for accessories

| Sa | ampler              |             |                         |
|----|---------------------|-------------|-------------------------|
| S  | Related<br>Products | Accessories | Ordering<br>Information |



### MAS-100 ATMOS® The NEW microbial compressed gas sampler **Technical** Related

| Description |       |       |
|-------------|-------|-------|
|             | Decer | ntion |
|             |       |       |

**Benefits** 

specifications

| Product           | Description  |
|-------------------|--|
| MAS-100 Atmos®    | Microbial compress   |
| Scope of delivery | MAS-100 Atmos®<br>1 x sampling head<br>1 x pressure connervith connection piervith connect |

Products

Accessories

Ordering Information

Ord. No.

1.17328.0001

sed gas sampler

### microbial compressed gas sampler including:

with perforated lid (300 x 0.6 mm) ection tube 2 m PTFE eces (3/8" female) to gas supply and n tri-clamp and silicone gasket)

mm 34/10 mm r incl. USB C cable and regional plug adapters strator hardware key (black) ardware keys . calibration certificates







Dehydrated **Culture Media (DCM)** 

**Cleanroom Grade** A/B

**Isolator / RABS** 



**Ready-to-use** media fill

**Cleanroom Grade** A/B

**Isolator / RABS** 





Description

**Benefits** 

Related **Products** 

The available granulated culture media for media fill tests 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.

#### Ordering Information





Link to our Website



Download Brochure





Description

**Benefits** 

Related **Products** 

- 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-certified and non-animal origin products for ultimate process safety







Description

**Benefits** 

Related **Products** 

#### **RTU bags**

We also have Tryptic Soy Broth and Vegetable peptone broth available as ready to use media for media fill tests





#### Ordering Information



Description

**Benefits** 

Related **Products** 

Product

Tryptic Soy Broth non-animal origin

**Tryptic Soy Broth** 



#### Ordering Information

| Content | Ord. No.     |
|---------|--------------|
| 500 g   | 1.00550.0500 |
| 5 kg    | 1.00550.5000 |
| 500 g   | 1.00800.0500 |
| 5 kg    | 1.00800.5000 |



Description

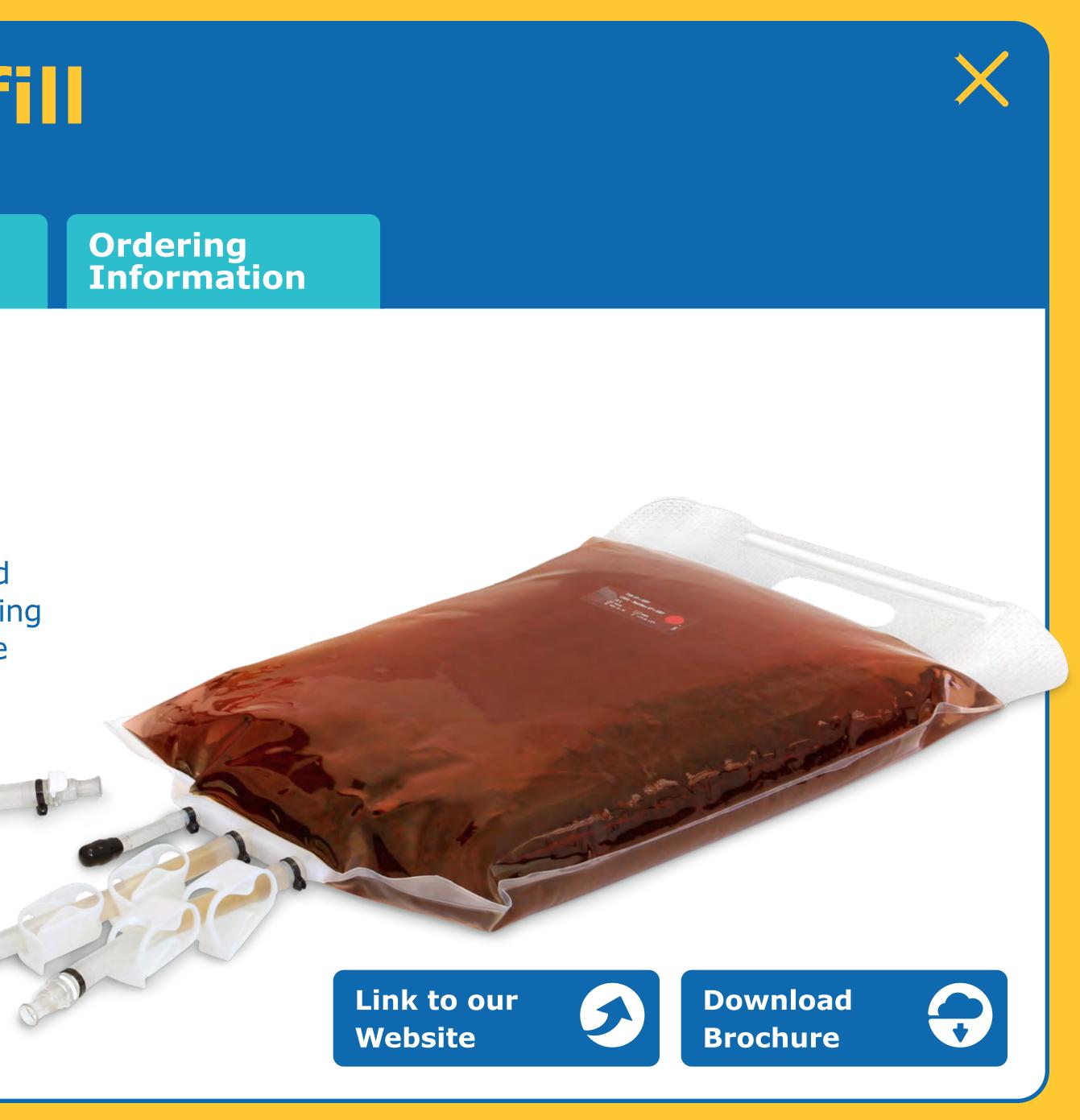
**Benefits** 

Related **Products** 

#### **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.





Description

**Benefits** 

Related **Products** 

- **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



#### Ordering Information





#### Description

**Benefits** 

Related **Products** 

#### DCM

and irradiated form



# Ordering Information





Description

**Benefits** 

Related **Products** 

Product

**Tryptic Soy Broth** 

**Vegetable Peptone Broth** 

Vegetable Peptone Broth with Lynx connector





| Ord. No     | Content  |
|-------------|----------|
| 1.46316.000 | 10 L bag |
| 1.46332.000 | 10 L bag |
| 1.46749.000 | 10 L bag |



# ELEANROOM GRADE



#### ICR/ICR+ **Contact Plates**

ICR swabs



#### **HYCON**<sup>®</sup> **Contact Slides**



#### ICR/ICR+ **Settle Plates**



IsoBag<sup>®</sup> Rapid **Transfer Bag** 



# CD CLEANROOM GRADE



#### RT/RT+ **Contact Plates**



**HYCON® Contact Slides** 



#### LI **Settle Plates**

NT®





# ISOLATOR / RABS



#### ICR/ICR+ **Contact Plates**



#### ICR/ICR+ **Settle Plates**

IsoBag<sup>®</sup> Rapid **Transfer Bag** 



**ICR swabs** 



#### **MAS-100** Iso NT<sup>®</sup>



**MAS-100** Iso MH<sup>®</sup>



#### Dehydrated **Culture Media**



**Ready-to-use** media fill







### Your first choice for **Environmental Monitoring Solutions for Pharmaceutical Industry:**

Learn more on our Website



#### For further information please contact:

Merck KGaA Frankfurter Strasse 250 64293 Darmstadt, Germany

#### SigmaAldrich.com

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