



# Impress Yourself

The new Eppendorf Cell Culture Consumables



»Even with 50 years  
of experience, we started  
from the beginning.«

**Dr. Daniel Wehrhahn,**  
Global Product Manager Eppendorf Cell Culture Consumables

As the leading manufacturer of premium consumables for Life Sciences worldwide, Eppendorf has been known to many laboratory users all over the world for many years. It is, however, not that widely known that Eppendorf actually invented the 1.5 mL micro test tube in 1963. For us, as Eppendorf employees, it is an incentive to revive the Eppendorf spirit of innovation again and again.

How can we make our customers' work processes simpler and more secure, quicker and more reproducible? How can we make work more enjoyable for users? When we are working on new product ideas, we ask users and ourselves these and another thousand questions. And if necessary, we are prepared to go back right to the beginning.

This is exactly what we did when we were developing the new Eppendorf Cell Culture Consumables. In spite of our many years of experience in the field of plastics technology we wanted to question everything once again. On our journey to this completely new product line we have discovered and learnt a lot. Now we know. It was worth it.



»We traveled the world  
and learned a lot about  
birthday cakes.«

What has a weird looking cake to do with a cell culture laboratory?

We found out. It is about fascination for cells and about people who care for the well-being of their highly sensitive samples, day and night and under challenging work conditions. The same people who sometimes bake a “cell cake” for their laboratory colleagues.

The scientific and personal enthusiasm of those people has been the lasting motivation for us to bring this passion to the development of the new Eppendorf Cell Culture Consumables. We wanted to understand the objectives and methods of users. We met scientists in hundreds of cell culture laboratories worldwide and analyzed their work processes. We studied their work practices and their preferences in the daily use of traditional cell culture dishes, flasks and plates.

The results of this joint effort did lead to initial product ideas. The incredibly positive feedback we received from users has inspired us and confirmed our approach.

Now we have reached our goal. And we are convinced that the all new product line of Eppendorf Cell Culture Consumables will also impress your cells.

»We saw the beauty  
of a screw cap.«

Proven Eppendorf Quality brought to a new level.  
Premium in all aspects: Product, Performance  
and Packaging.



## Product



- > Direct surface identification on the product
- > Significantly improved handling in cell culture workflows for more safety and consistency
- > Proof of non-cytotoxicity according to ISO 10993 specifications
- > Ultraclear virgin polystyrene complying with USP class VI for highest purity
- > ISO class 7/GMP class C clean room production standard
- > Lot specific 3<sup>rd</sup> party product testing including in-vitro test with cells
- > Sterility assurance level (SAL) of 10<sup>-6</sup> for highest product safety

## Performance



- > Optimized microscopical performance in plates due to enhanced planarity, reduction of meniscus and high clarity of the material
- > Unsurpassed safety and confidence during transportation and manipulation of cell cultures
- > ConvexAccess™ neck geometry for significantly facilitated entry into flasks
- > High efficiency air filter technology for improved contamination protection in flasks
- > Complete chimney-well design in all plates levels out temperature changes, minimizes “edge effects” and prevents cross-contamination during pipetting for more reproducible results
- > Easy and fast well identification by contrast rich individual well ID and the OptiTrack® alphanumeric labeling in plates

## Packaging



- > Compact, resealable and shrinkable product packaging for space saving and safe storage of remaining consumables
- > Color coded icons for easy identification of formats and surface
- > Improved protection against breakage during transport
- > Innovative tray for easy removal of products from the box and carrying in the lab
- > Clear labeling of boxes for easy identification of products when stacked on the shelf or in the storage facility

## Eppendorf Cell Culture Dishes

### **The focus: Safety in all situations**

Whenever you need direct access to your cells, dishes are the format of choice. We focused on an improved handling and stacking performance to ensure a new level of safe and carefree usage of those formats in cell culture.

It all starts with the packaging: opening is easy and tool free. An innovative resealable top and side makes tape-free closing possible. And the bags can be shrunk for spacesaving, safe and contamination-free storage of remaining dishes.

### **Reliable grip and easy handling**

Working with dishes is not always easy due to the small sizes and hard to differentiate lids and dish bottoms.

With the new Eppendorf dishes, a corrugated handling ring provides an unsurpassed safety in handling during transportation and expansion of cells.

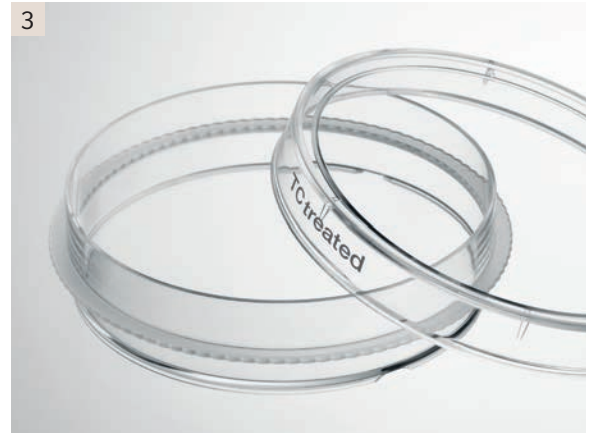
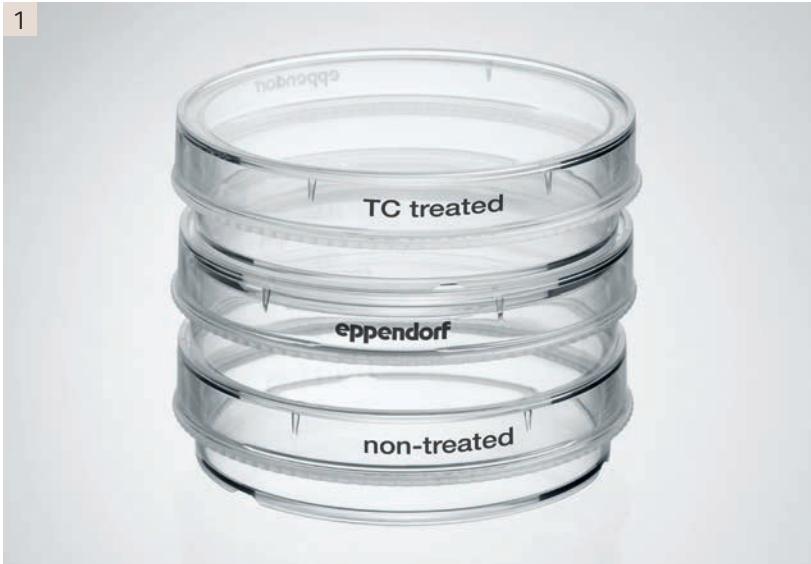
A SplashProtect™ ring inside the dish lid prevents spillage that may cross-contaminate other samples. An outstanding stacking performance completes these products in their ease, safety and convenience in handling.





- > Unsurpassed safety in handling during transportation and while working with dishes due to corrugated handling ring
- > SplashProtect ring inside of the dish lid traps liquid and prevents spills during transportation or incubation
- > Robust stacking performance by pronounced rims on dish lid and exact fitting of lid and bottom when used in stacks
- > Easy differentiation of lid and dish bottom prevents unintended removal of the lid
- > Packaging combines tool-free opening, resealable top and side for tape-free closing and an easy solution to shrink the package for space-conscious storage

- 1 Direct surface identification on the product
- 2 Corrugated handling ring for extra safe handling and transport of samples
- 3 SplashProtect ring inside the lid and an easy differentiation between lid and dish prevents spillage and contamination
- 4 Innovative resealable and shrinkable bags for secure and space-saving storage





## Eppendorf Cell Culture Plates

### **The focus: Reproducibility and safety**

Experience unprecedented convenience and safety for your plate-based cell culture experiments. Eppendorf Cell Culture Plates are tailored for the expansion of smaller cell numbers as well as for cell-based assays.

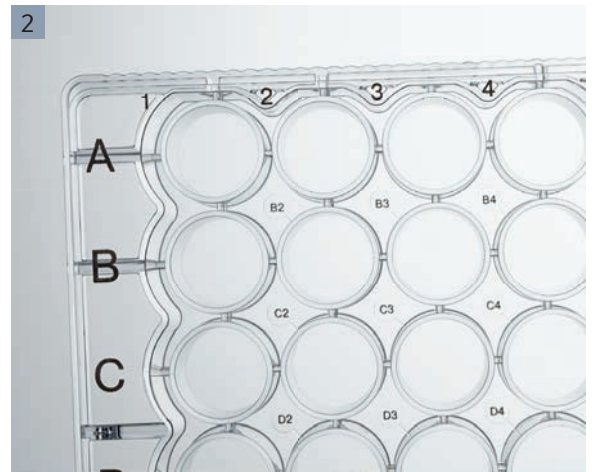
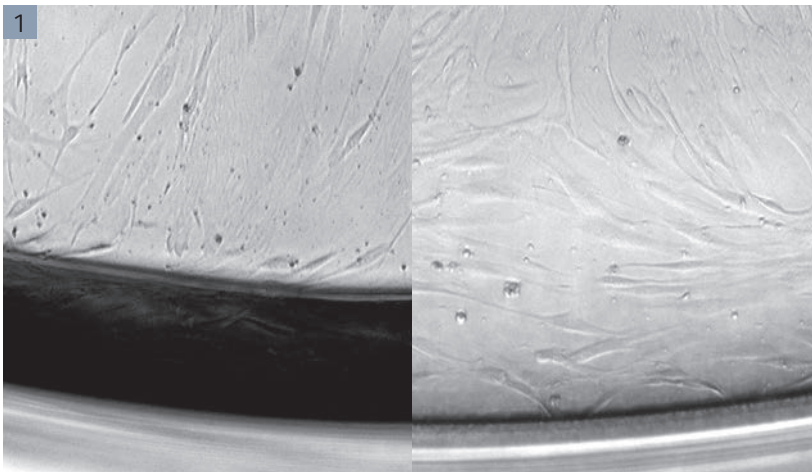
Easy orientation and fast identification of individual wells due to the contrast rich alphanumeric OptiTrack labeling is now available for cell culture!

Carrying the new Eppendorf Plates™ is extremely comfortable and safe due to the enlarged corrugated gripping area of the plate. Lid and plate bottom can easily be distinguished providing extra safety in transportation and stacking.

### **Improved assay results**

Qualification of cell performance can be especially critical in plates. We optimized the optical performance by enhancement of the planarity, material clarity and reduction of the meniscus of liquids in the wells to facilitate every step where manual or automated read-out is necessary.

The outer moat of the 96-well plate can be filled with liquid due to the innovative new chimney-well design of the plates. Thus inhomogeneous assay results due to the "edge effect" can be minimized. By filling the complete inter well space the temperature is more stable throughout the plate when the cells are outside the incubator. This will help you to increase the efficiency and reproducibility in your assays.



- > Easy and fast well identification by contrast-rich individual well ID and OptiTrack alphanumeric labeling
- > Optimized microscopical performance due to excellent planarity, reduction of meniscus and clarity of the material
- > New chimney-well design enables minimizing the "edge effect" in assays and reducing well-to-well temperature shifts outside the incubator
- > Robust stacking performance by pronounced rims on plate lid and excellent fitting of lid and base when used in stacks
- > Easy differentiation of lid and plate bottom by pronounced corrugation on the plate bottom

- 1 Optimized microscopical performance. Minimized shadow interference in imaging area.  
Left: Competitor plate  
Right: Eppendorf plate
- 2 OptiTrack contrast rich alphanumeric labeling for fast tracking of well
- 3 Filling of the moat surrounding outer wells to minimize the "edge effect". Direct surface identification on the product.
- 4 Safe and easy handling through pronounced corrugation of the plate and smaller lid

# Eppendorf Cell Culture Flasks

## The focus: Perfect protection of your cells

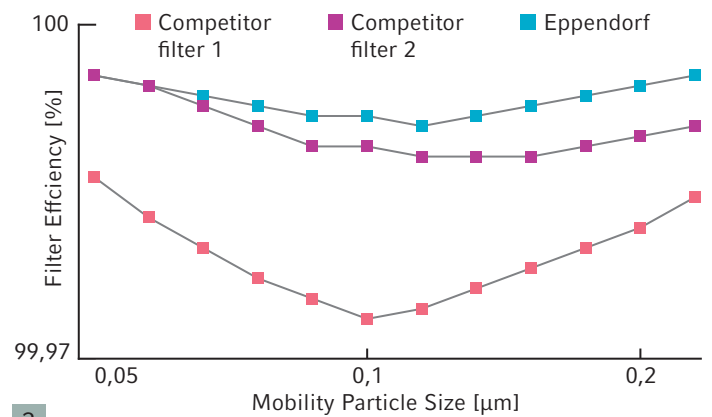
Unsurpassed protection of your cells from contaminants was one of the key requirements in developing the new Eppendorf Cell Culture Flasks. A new, high efficiency air filter technology combines excellent protection with reliable gas exchange. A 100% in-line pressure test for each flask guarantees leakage-free flasks for maximum workflow safety. The plug-seal lids are equipped with an arrested and marked venting position that prevents unintended closing.

## Cell accessibility and safety

Workflow safety is combined with solutions for facilitated and ergonomic access to your cells in the new Eppendorf Cell Culture Flasks. The unique ConvexAccess shape significantly facilitates the access to the growth area and makes cell seeding and media exchange much more convenient, safe and reliable.

Also, flask access is more ergonomic and helps to prevent unintended disruption of the cell layer during any workflow step performed in the flasks. The anti-rolling cap enables you to put the cap safely on its side to prevent contamination of the inside of the cap.

- > ConvexAccess geometry for facilitated access to entire growth area for easier and safe cell treatment
- > Optimized protection against contamination by high efficiency air filter technology
- > Defined arrested position with plug-seal caps to prevent undesired closing
- > Anti-rolling cap with corrugation facilitates cultivation steps when the cap needs to be set aside
- > 100% in-line control for leakage-free flasks and maximum safety
- > Direct surface identification on flask and cap



- 1 ConvexAccess neck for easier access to the growth area
- 2 Anti-rolling cap with corrugation and clear position marks in plug-seal caps to prevent undesired full-closing
- 3 High protection against contamination due to the air filter technology
- 4 Workflow safety and ergonomic handling in all sizes

4



# Cell Handling with Eppendorf

## Discover our comprehensive line of instruments and consumables for the cell culture workflow.

Eppendorf has been using innovative technologies and premium products to make an important contribution to improving work processes in liquid handling, sample handling and cell handling for nearly 70 years. Our instruments and consumables help to make repetitive laboratory tasks easy, precise, safe and efficient.

For laboratories looking to assure the quality of their cells, improve overall efficiency, and streamline the analysis process, Eppendorf provides comprehensive laboratory technologies ranging from liquid handling tools and systems, to centrifugation, incubation and storage systems, analyzing tools and imaging consumables that cover the whole cell culture workflow.

### Growing Cells

Reliability and advanced control are the hallmarks of Eppendorf New Brunswick™ CO<sub>2</sub> incubators and biological shakers. The Galaxy® 48R incubator [1] is perfect for small lab spaces. The Eppendorf Bioprocess portfolio offers comprehensive and scalable solutions for R&D, process development, pilot and production. The innovative BioBLU® family of ready-to-use rigid wall single-use bioreactors offers working volumes from 65 mL – 40 L [2].

### Pipetting cells with reliable liquid handling tools

Your work in cell culture benefits from Eppendorfs competence in liquid handling. Reliable, robust and precise pipetting is possible with the Easypet® 3 [3]. Lightweight, well-balanced and an ergonomic design ensures fatigue-free pipetting. Eppendorf Serological Pipettes [4] are the ideal complement to the Easypet 3 to form the reliable cell culture pipetting system.

The epMotion® 5070f [5] is an easy to use and very precise automated liquid handling system for cell culture and cell-based assay set-up.

### Centrifugation of cells

Our centrifuges provide high applicational flexibility. The Eppendorf Centrifuges 5804/R (not shown) and 5810/R [6] are ideal partners in the cell culture lab as they offer high capacity and flexible rotor options. Specific Cell Culture centrifuge packages, optimized for swing bucket rotor applications are available and are ideally complemented with the new Eppendorf Conical Tubes 15 mL and 50 mL [7].

The Eppendorf Tubes® 5.0 mL are an ergonomic and easy to use alternative to 15 mL conical tubes for small to medium cell culture formats [7].

### Analyzing cells

Reliable detection tools are another tradition in the Eppendorf product portfolio. The Eppendorf BioPhotometer® is already in its 3rd generation has become an established standard in life science. Fluorescent plate based assays can be performed with the PlateReader AF2200 [8] with easy to use, preconfigured filter combinations. The Eppendorf Cell Imaging Plates [8] and Dishes [9] are solutions for your live-cell or fixed-cell imaging, and high content analysis (HCA). They offer an excellent optical quality at minimized autofluorescence.



## Eppendorf Cell Culture Dishes

### Ordering information

Description	Order no.
<b>Eppendorf Cell Culture Dish, 35 mm</b> , sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 300 dishes (30 bags x 10 dishes)	0030 700.112
non-treated, 300 dishes (30 bags x 10 dishes)	0030 700.015
<b>Eppendorf Cell Culture Dish, 60 mm</b> , sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 300 dishes (30 bags x 10 dishes)	0030 701.119
non-treated, 300 dishes (30 bags x 10 dishes)	0030 701.011
<b>Eppendorf Cell Culture Dish, 100 mm</b> , sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 300 dishes (30 bags x 10 dishes)	0030 702.115
non-treated, 300 dishes (30 bags x 10 dishes)	0030 702.018

## Eppendorf Cell Culture Plates

### Ordering information

Description	Order no.
<b>Eppendorf Cell Culture Plate, 6-Well</b> , with lid, flat bottom, sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 60 plates, individually wrapped	0030 720.113
non-treated, 60 plates, individually wrapped	0030 720.016
TC treated, 200 plates (20 bags x 10 plates)	0030 720.121
<b>Eppendorf Cell Culture Plate, 12-Well</b> , with lid, flat bottom, sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 60 plates, individually wrapped	0030 721.110
non-treated, 60 plates, individually wrapped	0030 721.012
<b>Eppendorf Cell Culture Plate, 24-Well</b> , with lid, flat bottom, sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 60 plates, individually wrapped	0030 722.116
non-treated, 60 plates, individually wrapped	0030 722.019
<b>Eppendorf Cell Culture Plate, 48-Well</b> , with lid, flat bottom, sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 60 plates, individually wrapped	0030 723.112
non-treated, 60 plates, individually wrapped	0030 723.015
<b>Eppendorf Cell Culture Plate, 96-Well</b> , with lid, flat bottom, sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, 80 plates, individually wrapped	0030 730.119
non-treated, 80 plates, individually wrapped	0030 730.011
TC treated, 200 plates (20 bags x 10 plates)	0030 730.127



# Eppendorf Cell Culture Flasks

## Ordering information

Description	Order no.
<b>Eppendorf Cell Culture Flask T-25</b> , sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, with filter cap, 192 flasks (24 bags x 8 flasks)	0030 710.126
TC treated, with plug-seal cap, 192 flasks (24 bags x 8 flasks)	0030 710.118
non-treated, with filter cap, 192 flasks (24 bags x 8 flasks)	0030 710.029
non-treated, with plug-seal cap, 192 flasks (24 bags x 8 flasks)	0030 710.010
<b>Eppendorf Cell Culture Flask T-75</b> , sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, with filter cap, 80 flasks (16 bags x 5 flasks)	0030 711.122
TC treated, with plug-seal cap, 80 flasks (16 bags x 5 flasks)	0030 711.114
non-treated, with filter cap, 80 flasks (16 bags x 5 flasks)	0030 711.025
non-treated, with plug-seal cap, 80 flasks (16 bags x 5 flasks)	0030 711.017
<b>Eppendorf Cell Culture Flask T-175</b> , sterile, free of detectable pyrogens, RNase & DNase, DNA. Non-cytotoxic.	
TC treated, with filter cap, 48 flasks (12 bags x 4 flasks)	0030 712.129
TC treated, with plug-seal cap, 48 flasks (12 bags x 4 flasks)	0030 712.110
non-treated, with filter cap, 48 flasks (12 bags x 4 flasks)	0030 712.021
non-treated, with plug-seal cap, 48 flasks (12 bags x 4 flasks)	0030 712.013

# Technical Specifications

## All Cell Culture Consumables

<b>Surface</b>	Tissue culture treated or non-treated
<b>Operating temperature</b>	-86 °C to 60 °C
<b>Storage before use</b>	Store dry and at RT. Protect from sunlight and UV rays
<b>Purity</b>	All products are sterile: Sterility is assured by irradiation according to DIN EN ISO 11137-2:2007 with sterility assurance level (SAL) of 10 <sup>-6</sup> . Sterility is tested according to USP, Ph. Eur. 2.6.1. All products are free of detectable pyrogens, RNase, DNase and human and bacterial DNA. All products are non-cytotoxic.
<b>Certificates</b>	Leachables, heavy metals, production conditions, cytotoxicity. The certificates are available under <a href="http://www.eppendorf.com">www.eppendorf.com</a>
<b>Lot-specific certificates</b>	Sterility Absence of: Pyrogens, RNase, DNase, DNA. TC treated surface: Testing for cell attachment and cell growth with an anchorage-dependent cell line Lot-specific certificates can be downloaded at <a href="http://www.eppendorf.com">www.eppendorf.com</a>

# Eppendorf Cell Handling Products

## Ordering information

Description	Order no.
<b>New Brunswick™ Galaxy® 48 R</b>	
230 V/50/60 Hz, Standard	CO48R-230-0000
230 V/50/60 Hz, O <sub>2</sub> control (1 – 19 %)	CO48R-230-0200
230 V/50/60 Hz, High-Temp Disinfection	CO48R-230-1000
230 V/50/60 Hz, High-Temp Disinfection and O <sub>2</sub> control (1 – 19 %)	CO48R-230-1200
<b>BioBLU® bioreactors</b>	
for detailed ordering information please visit <a href="http://www.eppendorf.com">www.eppendorf.com</a>	
<b>Eppendorf Easypet® 3</b> incl. power supply and Lithium-polymer rechargeable battery, wall mount, shelf stand (not available in USA), 2 membrane filters (unsterile) 0.45 µm	4430 000.018
<b>Eppendorf Serological Pipets</b>	
sterile, free of detect. pyrogens, DNA, RNase & DNase, non-cytotoxic	
■ 1 mL, yellow, 800 pcs. (4 bags × 200 pcs.)	0030 127.692
■ 2 mL, green, 600 pcs. (4 bags × 150 pcs.)	0030 127.706
■ 5 mL, blue, 400 pcs. (4 bags × 100 pcs.)	0030 127.714
■ 10 mL, orange, 400 pcs. (4 bags × 100 pcs.)	0030 127.722
■ 25 mL, red, 200 pcs. (4 bags × 50 pcs.)	0030 127.730
■ 50 mL, violet, 160 pcs. (4 bags × 40 pcs.)	0030 127.749
<b>Eppendorf epMotion® 5070f</b> , basic device for use inside a cell culture bench or fume hood, incl. epBlue™ software, mouse, waste box, 50/60 Hz, 100–240 V	5070 000.281
<b>Centrifuge 5804</b> , without rotor, 230 V/50 – 60 Hz	5804 000.013
<b>Centrifuge 5804 R</b> , refrigerated, without rotor, 230 V/50 – 60 Hz	5805 000.017
<b>Centrifuge 5810</b> , without rotor, 230 V/50 – 60 Hz	5810 000.017
<b>Centrifuge 5810 R</b> , refrigerated, without rotor, 230 V/50 – 60 Hz	5811 000.010
<b>Eppendorf Conical Tubes 50 mL</b> , sterile, pyrogen-, DNase-, RNase-, and DNA-free, 500 Tubes (20 bags × 25 pcs.)	0030 122.178
<b>Eppendorf Conical Tubes 15 mL</b> , sterile, pyrogen-, DNase-, RNase-, and DNA-free, 500 Tubes (10 bags × 50 pcs.)	0030 122.151
<b>Eppendorf Tubes® 5.0 mL, Sterile</b> , 200 tubes (10 bags × 20 pcs.)	0030 119.487
<b>Starter Pack of Eppendorf Tubes® 5.0 mL, PCR clean</b> , 400 tubes (2 packages with 2 bags of 100 ea.), 2 racks (with 16 spaces), white, universal adapter for rotors with bore for 15 mL conical tubes (8 pcs.)	0030 119.380
<b>Eppendorf PlateReader AF2200</b> , 230 V/50 – 60 Hz	6141 000.002
<b>Fluorescence filter slide for PlateReader AF2200</b> , preconfigured filter slide, optimized for the fluorescence dyes most frequently used in molecular biology and cell biology labs (360/465, 485/535, 485/595, 535/595)	6141 070.027
<b>Eppendorf Cell Imaging Dishes with cover glass bottom</b> , tissue-culture-treated, sterile, free of detectable pyrogens, RNase and DNase, DNA. Non-cytotoxic.	
35 × 10 mm Cell Imaging Dish 145 µm (1), 2 dishes per bag, 30 dishes	0030 740.009
35 × 10 mm Cell Imaging Dish 170 µm (1.5), 2 dishes per bag, 30 dishes	0030 740.017
<b>Eppendorf Cell Imaging Plates with lid, black with clear F-bottom</b> , tissue-culture-treated, sterile, free of detectable pyrogens, RNase and DNase, DNA. Non-cytotoxic.	
24-Well Cell Imaging Plate with 25 µm film bottom, individually wrapped, 20 plates	0030 741.005
96-Well Cell Imaging Plate with 25 µm film bottom, individually wrapped, 20 plates	0030 741.013
24-Well Cell Imaging Plate with cover glass bottom, individually wrapped, 20 plates	0030 741.021
96-Well Cell Imaging Plate with cover glass bottom, individually wrapped, 20 plates	0030 741.030

Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)

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