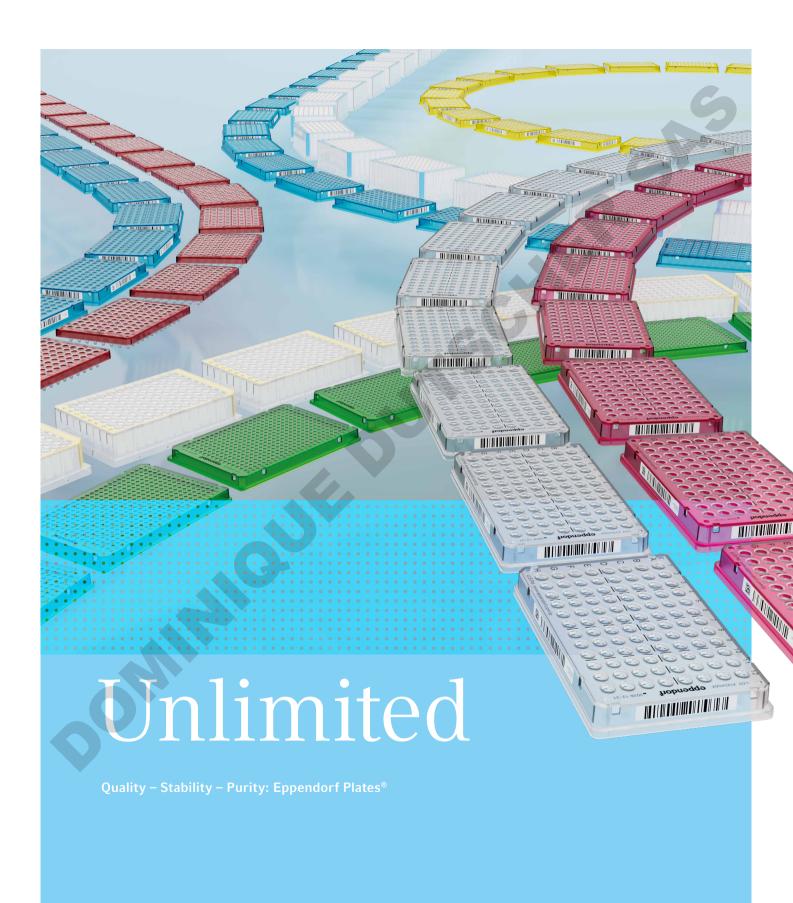
eppendorf



"We have seen substantial inhibition of our enzyme assays by chemicals leaching from disposable plastic consumables. To obtain the best possible reproducibility, we use consumables from manufacturers that can confirm the absence of critical manufacturing additives."

Dr. Andrew Holt Department of Pharmacology University of Alberta, Canada

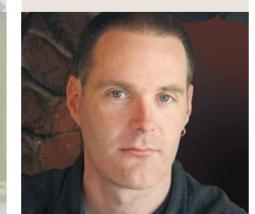


"We need to avoid contaminants from the plastic material entering the sample and inhibiting bacterial growth. The consumables we use to analyze water samples should be of the highest purity to obtain reliable results."

Karen Thomsen

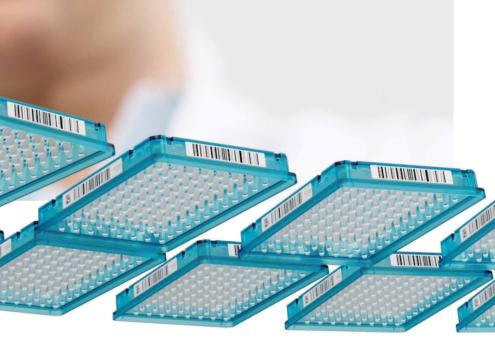
Microbiology Central Laboratory Hamburg Water GmbH, Germany "Our DNA isolation protocols from both animal and plant material require we grind tissue prior to and during the cell lysis process. As we work with many, many samples, breaking consumables and experiencing the subsequent sample loss can be critical. The excellent quality and stability of the 1 mL Eppendorf Deepwell Plates[®] convinced us as it improved the reliability of our process significantly."

Dr. Paul Gooding *Plant Genomics Centre Australian Genome Research Facility, Australiay*



The Best for Your Workflow

Our consumables are made to ensure your workflows are highly reproducible and convenient. Our plates are not simply plastic, they are high-performance components designed to help you to excel in your work. This is why our expertise and dedication underlie all our plate designs and production quality. Our expert team brings decades of experience to ensuring robust production processes for our consumables with the sole aim of providing you simply the best possible plates.



Made for Robotics

Reliability for your robotics

By using our plates, you are investing in the future viability of your workflows. Our plates ensure high reliability, lower error rates and less downtime as well as reduce the need for post-analytical corrections. This results in faster turn-around times, particularly in highthroughput settings. For you, this translates in to greater analytical quality, reduced financial and opportunity costs, and decreased business risks in terms of applications.

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Design and precision

We live functional design, and our plates are made for robotics:

- > Following ANSI/SLAS microplate format
- > Feature excellent robustness and rigidity with no warping, no bending, no shrinking to ensure an exact fit into adapters, precise stacking and optimal control by robots
- > Have exceptional geometrical precision to ensure highly accurate liquid handling
- > Deliver high geometrical consistency for easy teaching – fire and forget

Made for Consistent Lab Results

Reliability in your assays

Thoughtful design and development form the basis for safe, user-friendly handling as well as exceptional application performance. This also includes sample integrity: A plate should not affect application results, even if the workflow has demanding conditions.

High purity

- > All our plates are produced from virgin resins
- > High chemical purity is ensured through our expertise in selection and design of our polymers and production processes (download our Application Note 459)
- > High biological purity is ensured by lot-specific testing and certification by an accredited external diagnostic lab ensure high biological purity. We provide lot-specific certificates
- > Forensic DNA Grade consumables feature an additional staff-DNA exclusion database to better support you solving potential DNA contamination issues (learn more and read our brochure: "The Pure Truth")

High performance

We live functional design. Our plates are made for high-quality analyses: > Our colored plates help increase the robustness of your workflows > Their reliable fit into adapters and equipment ensure secure, reproducible handling > The plates planarity and raised well rims ensure excellent sealing

- > The homogeneity of all plate wells ensure reproducibility
- > The highly polished well surfaces ensure reliable assay performance

Traceability

Near unlimited traceability and customization options ensure you can tailor our product to your meet systems' needs.

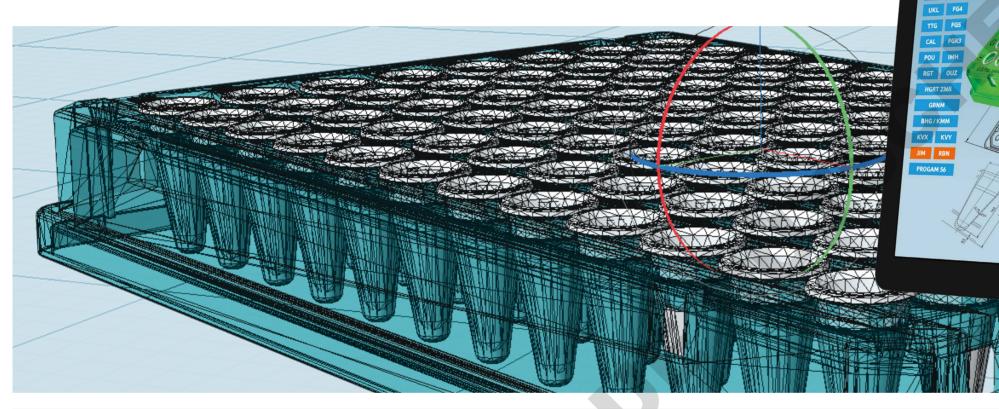


Smart performance Smart polymers, such as the material used in our LoBind[®] plates, ensure high recovery rates and optimized assay results.



Made by Eppendorf

Our products maintain their high quality throughout their entire life cycle. Our developers, application specialists, mold constructors and builders, production staff and quality management staff demonstrate their dedication each and every day to ensure our vision of product quality translates into the high performance you expect. Our logistics and sales professionals work hard each day to show how our products are more than mere plastic pieces; they are high-performance components that enhance your workflow. Building relationships, reliability, dependability and ultimately, trust lie at the core of our values.



Design, construct, tune

We run our own tool shop, which we use to design and build some of our most valuable tools self-made. We know our our machines inside and out and should a production interruption occur, we can quickly identify and rectify any deviations in-house.

Reproducible and reliable

You wont't feel the difference. But then again, you really will: Meticulous design, construction and maintenance of our molds ensure each replication delivers an identical Eppendorf products and outstanding Eppendorf performance. Our performance today will be the same in five years, and it will be the same in your next lab. We offer consistent performance plate after plate, lot after lot, year after year.

For you, this results in more robust validation, better scalability, easier protocol transfer and more "peace of mind".

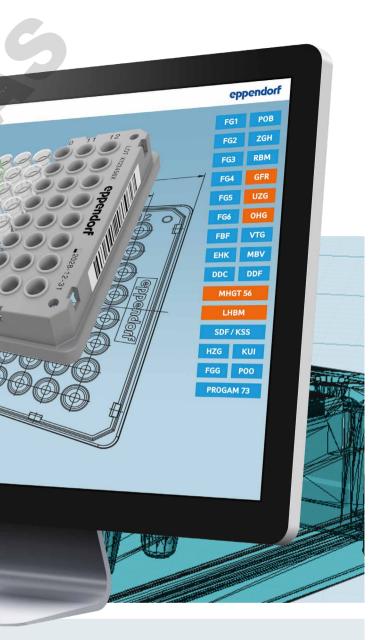
We love service

Our products are not just consumables they are your experience. We see ourselves not just as a supplier, but as your partner in the lab. Should you have any requests or should issues arise, we are there to support you and your business.



See our Application Note No. 466 on reproducibility: **»Through Space and time**«

lote No. 466



eppendorf

Eppendorf LoBind® Plates

Protein LoBind plates

8 Unlimited

During the storage or incubation of biological samples in standard reaction vessels, more than 90% of the sample material can be lost within 24 hours due to the biomoleculers binding to the plastic surface. Eppendorf LoBind plates maximize sample recovery by significantly reducing sample binding to the surface.

Applications

- > Preparation and storage of protein, peptide, and antibody samples
- > Enzymatic assays
- > Storage of virus stock solutions
- > Storage of cell suspensions
- > Sample processing in toxicology

DNA LoBind plates

636,965

DNA LoBind plates are optimized to effectively recover nucleic acids. Special manufacturing technologies along with a targeted polypropylene design ensure nearly 100% recovery of DNA/RNA molecules – and all this without surface coating to avoid contamination hazards to the sample.

Applications

- > Preparation and storage of DNA and RNA samples
- > Forensic trace analyses
- > Preparation of dilution series for quantitative PCR
- > Sample preparation for next-generation sequencing (NGS)
- > Preparation of genome or oligonucleotide libraries

Eppendorf twin.tec® PCR plates LoBind

Get the most out of your PCR. Polypropylene wells with LoBind properties are designed to maximize the yield of your target molecules. This means more molecules are available for the reaction, e.g., PCR.

Applications

- > PCR low DNA template concentrations,
- e.g., forensic trace analysis
- > Low-volume PCR
- > DNA library construction in NGS workflows



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Eppendorf twin.tec[®] PCR Plates 96 LoBind Increase Yield of Transcript Species and Number of Reads of NOS Libraries

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Application Note 357: Eppendorf twin.tec® PCR Plates 96 LoBind Increase Yield of Transcript Species and Number of Reads of NGS Libraries



Traceability

Our traceability begins in our factory and extends into your lab to make your processes more robust. Discover our twin.tec® Trace PCR Plates, our SafeCode plates, and our customized barcoded plates for improved ergonomics and traceability. These plates are the perfect choice for high-throughput applications and automated workflows as well as standardized and regulated processes. In addition, they support traceability and your documentation for audits.

Optimized colors

Brighter colors offer 3 in 1:

- > Support for your workflow through easy plate identification
- > High-contrast labeling via laser marking
- > Improved visibility of samples and pipette tips in the wells

twin.tec® Trace Plates

Laser-engraved lot numbers and expiration dates On each individual plate for better traceability in your laboratory processes, your kits, or with your own customers.

Trace the data even after the plates are removed from the packaging.



New innovative guiding grid > For lightning-fast well identification

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I.S.Pat. www.eppendorf.com/ip

High performance

- > Combines robustness and readability even on colored plate frames
- > Excellent contrast due to black-on-white printing
- > Exceptional mechanical, chemical and thermal robustness
- > Future-proof 2D DataMatrix code on the front

Customized Barcoded Plates

Eppendorf Plates can be adapted to your specific processes and needs and are produced especially for you according to your specifications. Design your own barcoded plates using our easy-to-use Barcode Wizard.

Free choice

- > Choose the plate you need from our overall portfolio
- > Choose the position (1-4 edges), content (both the prefix
- and starting serial number) and the type of barcode
- > Sit back and relax knowing that we seamlessly follow up with you about using the serial numbers in your next order



SafeCode Plates

Standardized, barcoded Eppendorf Plates with a precoded, robust printed 2D and 1D barcode are your off-the-shelf barcoded consumables: Easy to order, quickly delivered and requiring no minimum order quantity.

Your unique ID

- > Serial numbers are unique across all Eppendorf SafeCode consumables and lots
- (all plates, tubes and vials)

SafeCode Feature: Full traceability

> Easy, fast access to product- and lot-specific documentation* by entering the serial number on our homepage (https://www.eppendorf.com/safecode-data)

* Including: IFU-, lot-specific certificates, general certificates, technical drawing



The Production Process – From Renewable Material to Eppendorf Plates® BioBased

2nd Generation Feedstock – 1st Class Consumables

Sustainability meets precision. Our new bio-based plates offer a pathway to significantly more sustainable laboratory work without the need to revalidate existing procedures when transitioning from other Eppendorf twin.tec® PCR plates.

Our manufacturing sites and processes are ISCC PLUS certified by the International Sustainability & Carbon Certification organization (ISCC).

Eppendorf twin.tec[®] PCR Plates BioBased

Laser-engraved lot number on every plate

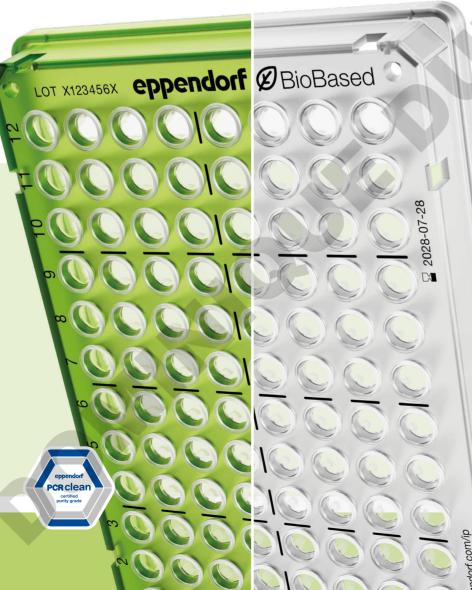
LOT X123456X

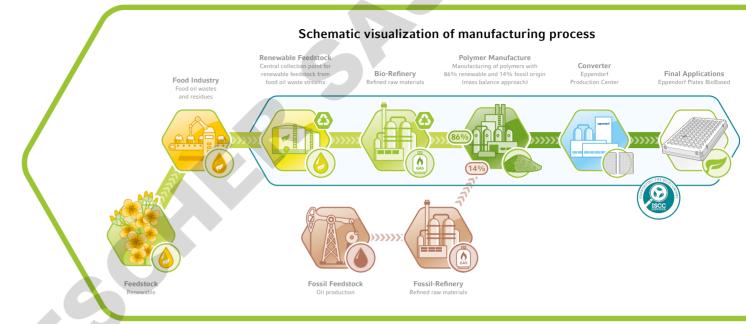
Product features

- > Reduction of consumable-related carbon footprint in the lab
- > Identical performance to existing reference twin.tec PCR Plates
- > Proven one-piece design: Combining a polycarbonate frame for consistent performance in robotics and polypropylene wells for optimized assay performance
- > Laser-engraved lot number and expiration date on each single plate
- > Unique laser-engraved optical guiding grid and OptiTrack® matrix for quick orientation when pipetting manually
- > Batch-tested and independently certified free of DNA, DNAase, RNase and PCR inhibitors (PCR clean)



Discover more about BioBased consumables: .eppendorf.com/biobased





Laser-engraved expiration date on every plate

2028-07-28

Our biobased plates are manufactured using polymer resins derived from bio-circular renewable resources. The production process follows the mass balance approach, where fossil oils are replaced by second-generation renewable resources (e.g., waste and residues from forestry, vegetable oil refining, or used cooking oil).

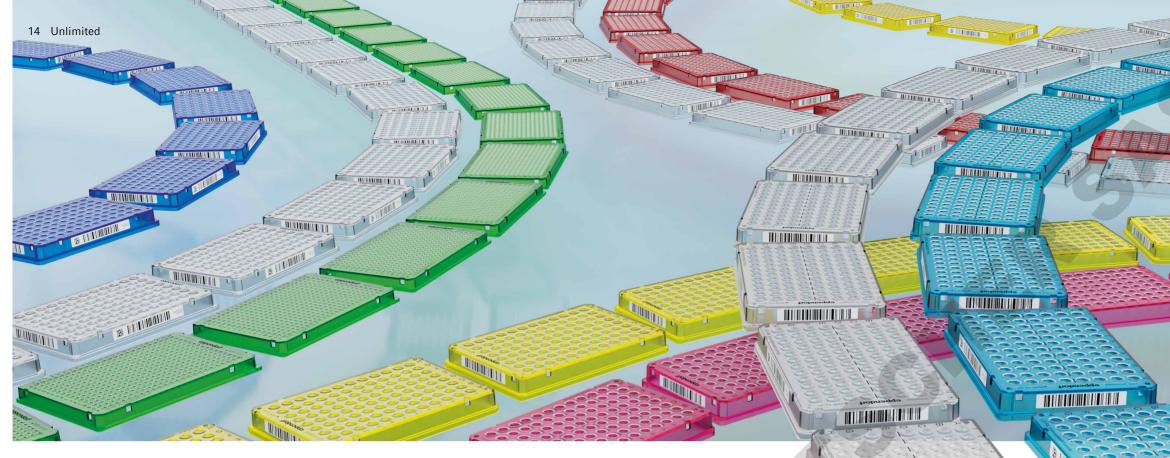
* Renewable material content is 100% for polypropylene wells and 77% for the polycarbonate frame. When weighted by the material's respective mass, this results in an average renewable material contents. able material content of 86%

> > The resulting biobased polymers are chemically identical to fossil oil-based polymers. This enables us to contribute to your sustainability goals while delivering the same superior technical performance as our non-BioBased consumables

- > Our manufacturing sites and processes are ISCC PLUS certified by the International Sustainability & Carbon Certification organization (ISCC)
- > ACT labeled Environmental Impact Factor certification initiated by My Green Lab®







Eppendorf twin.tec® PCR Plates

The best fit for your Genomics applications: Scientists continuously ask themselves about the best instrument, reagent mix, enzyme and the like for their experiments. The same careful approach should be taken when selecting plastic consumables for your valuable samples. Variability-prone consumables can lead to enormous differences in the quality and reproducibility of your results. Wall thickness, material chemical purity, mechanical stability and many other properties can have a direct effect on your experiments.

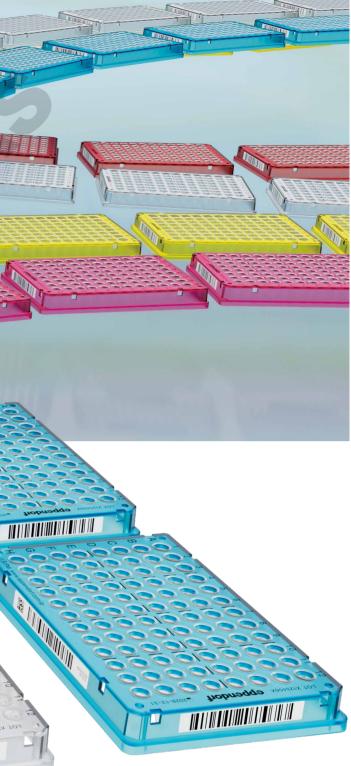
Made for Robotics and Robust Processes

Exceptionally robust polycarbonate frame

- > Reliable grabbing and precise stacking
- > Maximum geometrical consistency and stability throughout the workflow
- > Perfect adaptor fit no shrinking or warping during incubation at temperature
- > Smart traceability options such as lot-marking and off-the-shelf barcoding (see also pages 10-11)
- > Colored frames for process control and transparent frames to more easily teach automation devices
- > High-contrast laser engraving for manual and semi-automated work







Applications

- > Automated, standardized and/or validated processes
- > High-throughput Genomics applications
- > NGS library generation
- > Standard and real-time PCR
- > Sample handling of small volumes
- > Normalization and cherry-picking

Made for High-Quality Results

Applications

- > Optimized heat transfer through extremely thin-walled polypropylene wells
- > LoBind versions for maximized sample recovery (see also pages 8-9)
- > Raised well rims for effective sealing to also reduce the risk of cross-contamination
- > Plates and sealing options optimized as a system
- > Suitable for most thermal cyclers
- > Certified free of detectable DNA, RNA, DNase, RNase, and inhibitors
- > Lot-specific purity certificates by an external, accredited lab
- > Highly consistent wells to ensure optimized bead formation
- > Highly polished wells to minimize the risk of interference by small residual plastics (i.e., during capillary electrophoresis)

twin.tec real-time PCR Plates

- > Optimal for low-volume real-time PCR
- > White wells for optimized fluorescence signal reflection

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- to ensure low fluorescent signals remain detectable
- > Reduced and consistent background fluorescence
- > Improved homogeneity of replicates and reproducible results

twin.tec PCR Plate 384, skirted

- > For higher throughput and smaller sample volumes
- > Excellent compatibility with automated systems
- > Skirted for labeling or barcoding
- > 45 µL max. well volume

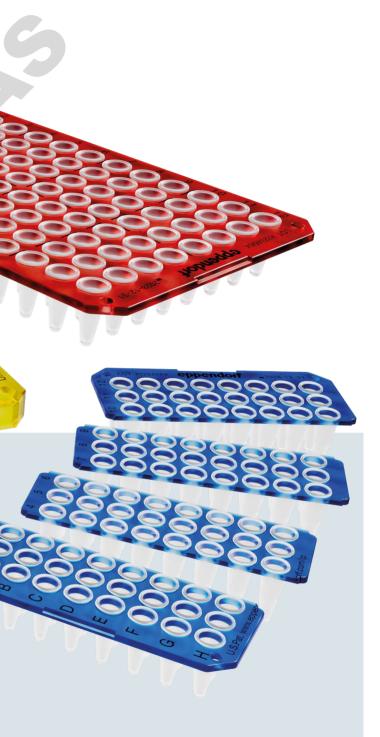
twin.tec PCR Plate 96, skirted

- > Excellent compatibility with automated systems
- > Skirted for labeling or barcoding
 - > Low-profile design to enable low-volume PCR > 150 µL max. well volume

twin.tec PCR Plate 96, semi-skirted

- > Offers a higher well volume up to 250 μ L max.
- > Excellent compatibility with automated systems (depending on system)
- > Semi-skirted for labeling or barcoding





twin.tec PCR Plate 96, unskirted

> Available with regular profile (250 μ L)

- and low-profile (150 µL)
- > Available in a divisible format $(4 \times 24 \text{ wells})$



Eppendorf Deepwell Plates

Have you ever confused a 1 mL deepwell plate for a 2 mL plate in your robotic sample preparation? That will never happen again when you use our colored high-performance Eppendorf Deepwell Plates 96 and 384. They are the only deepwell plates with a colored frame worldwide.

Made for Robotics

- > RecoverMax[®] well design: Bottom and corner geometry of the wells are designed for maximum sample recovery, excellent mixing properties and minimized risk of cross-contamination
- > Outstanding consistency and uniformity from well to well and from plate to plate for optimized automation workflows as well as consistent, reproducible results
- > High transparency for better visibility of the sample and pipettes tips in the wells, especially when the teaching automation devices
- > Robust design: No geometric deformation during storage at -86 °C and incubation at 100 °C
- > Traceability: Available in SafeCode and customized barcode versions

Made for High-Quality Lab Results

- > OptiTrack[®] matrix: Up to 30% faster sample identification and fewer pipetting errors thanks to lasered high-contrast alphanumeric labeling
- > Robust wells for working with glass or steel beads
- > Optimized material: High-quality polypropylene for strong resistance to chemicals, mechanical stress and temperature extremes from -86 °C to 100 °C
- sample yield and sensitive assays
- > Smart performance: Available in DNA and protein LoBind versions for maximized
- > Raised well edges and smooth surface for reliable sealing, even with heat sealing > q-Safe[®]: Exceptional centrifugation stability up to $6,000 \times q$ for faster precipitation
- and improved sample quality

Color

eppendorf

- > Yellow, blue, green and white plate borders > Your Workflows supported through easy plate identification
- > Side-by-side color recognition even when stacked

Applications

- > Sample collection
- high sensitivity (e.g., DNA, RNA, plasmids, protein, cells)
- > Genomics, proteomics, metabolomics, cellomics, compound analyses > Sample purification and material isolation with high throughput and > Preparation and storage of valuable samples (e.g., oligonucleotide libraries,
- proteins, cells, compounds) > Bacteria and yeast cultivation
- > Preparation of dilution series

Formats and purity grades

- > 96/2000 μL, 96/1000 μL, 96/500 μL, 384/200 μL > High biological purity in PCR clean, sterile
- > Available in bulk packaging



Eppendorf Microplates

Eppendorf Microplates bring unique clarity to your laboratory! Never before has it been so easy to pipette, process and recover samples in a polypropylene microplate. The exceptionally high transparency ensures you can always find your samples at a glance. For maximized sample recovery, the microplates are also available made with Eppendorf LoBind material.

Applications

- > Sample preparation and storage
- > Assays requiring high resistance to heat or solvents
- > Compound screening
- > Combinatorial chemistry
- > Protein or nucleic acid analyses

Product features

- > Unsurpassed transparent polypropylene for better sample visibility
- > OptiTrack matrix: 30% faster well identification and fewer pipetting errors thanks to high-contrast alphanumeric labeling
- > RecoverMax well design: Optimized well geometry for minimized residual volume and excellent mixing properties

sterile

- > g-safe: Exceptional centrifugation stability up to $6,000 \times g$
- > High resistance to chemicals, mechanical stress and temperature extremes
- > Available with barcode (see page 11)

Eppendorf Assay and Reader Microplates

Eppendorf assay microplates are designed for fluorescence and luminescence detection. The plates feature completely black or white wells and are suitable for use in plate measuring instruments that detect signals from the top.

Applications

- > Fluorescence and luminescence detection
- > Nucleic-acid and protein measurement
- > Cell-based assays
- > Cell-viability and apoptosis assays
- > Cell imaging







Product features

- > Black Eppendorf Microplates offer an excellent signalto-noise ratio, even with low-concentration samples.
- > White Eppendorf Microplates maximize reflection for exceptionally sensitive detection of luminescence.
- > The black-and-white assay plates are made of polypropylene and therefore highly resistant to chemicals, mechanical stress and temperature extremes
- > All plates are optimized for minimal auto-fluorescence and auto-luminescence.





Smart Seal

Your assays deserve not only outstanding plates but also outstanding sealing options. Our plate, film and foil material as well as adhesives have been designed to work together as a system and are optimized for a variety of assays. This results in a tight seal as well as strong protection against evaporation and contamination and strong protection of

High performance in assay and automation

Sensitive assays and automation require exceptional precision. Our films and foils offer:

- > Very low evaporation rates
- > Consistent optical measurements our films offer high transparency and ensure no shrinkage or curling during heating
- > Good marking properties
- > Easy piercing of foils, even with multichannel pipettes, without pipette tips adhering to the foil
- > No excessive protrusion of foil edges that impede secure gripping or stacking of the plates

sample integrity. You also benefit from excellent assay efficiency (e.g., no PCR inhibition), high transparency and the outstanding handling ergonomics - all what you have come to expect from Eppendorf.

High purity

Certified PCR clean purity also ensures the films and foils have no inhibitory effect on your PCR.

Ergonomic

Our film and foils have two end tabs that help you to handle the product more easily and to position it more precisely without touching the sealing area.

Pick your match

- > Masterclear[®] real-time PCR Film (optical film)
- > Heat Sealing Foil and Film
- > Self-adhesive PCR Foil and Film
- > Self-adhesive Storage Foil and Film
- > Eppendorf Sealing Mat
- > Eppendorf Plate Lid

Our sealing options are available for a variety of appli-Our Heat Sealing Foils are made of aluminum, are easy cations that demand different requirements. Depending to pierce – even with multichannel pipettes – while not on the product, these options offer permanent sealing or sticking to the pipette tips, and protect light-sensitive residue-free removal, high transparency or strong light samples. We recommend these foils for use in automated protection, good piercing properties or protection against systems. unintentional piercing, and single use or multiple use.

Our selection guide on page 22 will help you identify the most suitable product.



For more information





real-time PCR

Masterclear *real-time* PCR film is optimized for maximum light transmission. Transmission values of > 90% between 350 nm and 750 nm guarantee optimal excitation of your fluorescent dyes and optimal readout of the emitted fluorescence.

Automation

Selection Guide: Sealing Options

	Permanent sealing	Temporary sealing; easy, residue-free removal	Transparency	Protection for light sensitive samples	Can be easily pierced	Protection from unintended piercing	Recommended uses
PCR Film, self-adhesive							PCR, colorimetric applications, sample monitoring
PCR Foil, self-adhesive							PCR, high-throughput screening, use in automated systems
Heat Sealing Film							PCR, colorimetric applications, secure long-term storage of samples Especially strong protection against evaporation
Heat Sealing Foil	-				-		PCR, compound management, high-throughput screening, use in automated systems Especially strong protection against evaporation
Storage Film, self-adhesive							Secure short-term storage of sample
Storage Foil, self-adhesive							Short-term storage of light sensitive samples
Masterclear real-time PCR Film, self-adhesive			Transmission > 90% between 350 nm and 750 nm				real-time PCR, fluorescence based applications, optical measurements
Sealing Mat							Sterile assays, incubation in the heating block or water bath, auto- clavable and reusable (if not pierced)
Plate lid	Sturdy and flexible	e protection from ex	ternal contamination of	the samples during	g short-term stora	ge	

For more information please visit: https://www.eppendorf.com/de-de/lab-academy/life-science/microbiology/sealing-options-for-pcr-plates/qpcr-plates-how-to-find-the-right-one/

Selection Guide: SafeCode vs. Customized Barcoding

	SafeCode Plates		Customized barcoding	
Short profile			Greater flexibility in selecting barcode symbology, code content and label location	
Reliability and quality	Familiar high Eppendorf quality		Familiar high Eppendorf quality	
Ease of ordering	Off-the-shelf ordering		Customization via Barcode Wizard (eShop) and custom built to order production	
Immediate availability	Immediate	nmediate Built to stock W		Built to order
Minimum order quantity	Single case		Larger minimum quantity depending on product number. Minimum order quantity is provided during customization process	
Available barcode symbology	Fixed. Code 128 (1D) + Code 128 DataMatrix		Can be freely selected from: Code 128 (8 digits), code 128 (10 digits), code 39, Interleaved	
Barcode content	Predefined content that can't be customized ID / serial number consisting of two letters + 10 digits (i.e., ep1234567890)		Customizable content. prefix + 8-10 digits depending on code type. Free selection of start number. Eppendorf assists customer to manage continues sequence of barcodes for follow-up orders	
Uniqueness of ID, serial number	Unique ID guaranteed across all Eppendorf SafeCode Consumables (all plates, tubes and vials)		Unique within every production batch and across follow-up orders of the same project	
Label location	Left: 1D barcode, right: 1D barcode, front: 1D barcode + 2D DataMatrix (identical content) + human readable interpretation (HRI)		Free selection of label content (No. label, 1D barcode and/or HRI) on all four sides	
High contrast for safe reading even on colored plates	Yes (2-color print, black on white)		Yes (black color print on white label)	
Label and code durability	Exceptionally high: > Printed. scratch resistant, temperature resistant and chemically resistant printing > 2D DataMatrix on front side supports ECC200 error correction		High: > High-quality stickers with special adhesive	
Documentation availability	Instructions for use, product number information, all required certificates, technical drawings and lot-specific certificates available on homepage and		Instructions for use, product number information, all certificates, technical drawings and lot-specific certif available on homepage and upon request	
	SafeCode features: Lot-specific information and all docume at your fingertips via central dataport by querying the consu ID/serial number. The dataport always provides the docume at the time of lot production.	umable's		

For more information please visit: https://www.eppendorf.com/safecode-data

Technical Information

twin.tec[®] PCR Plates

Deepwell Plates

Material	Polycarbonate	Polycarbonate (frame), polypropylene (wells)					
Resistance to chemicals	"The best mate	he plates including border show a high resistance to UV light and chemicals. Refer to Application Note No. 56: The best material for original Eppendorf Tubes® and Plates" at www.eppendorf.com. n case of doubt, contact Eppendorf Application Support.					
Dimensions	Acc. to ANSI/SI	Acc. to ANSI/SLAS 1-2004, ANSI/SLAS 3-2004 and ANSI/SLAS 4-20041.					
Operational temperature	-80 °C to +120	-80 °C to +120 °C					
Autoclavability	Autoclavable (1	Autoclavable (121 °C, 20 min), not closed. The stability of the single-use items can be compromised.					
Format	96 wells				96 wells low pr	ofile	384 wells
	Skirted	Semi-skirted	Unskirted	Divisible	Unskirted	Divisible	Skirted
Max. filling volume	150 μL	250 μL	250 μL	250 μL	150 μL	150 μL	45 μL
Max. centrifugation stability	2,250 × g						

For specific and detailed operating conditions please refer to the instructions for use.

Microplates						
Material	Polypropylene, colored	d, colorless				
Resistance to chemicals	"The best material for	he plates including border show a high resistance to UV light and chemicals. Refer to Application Note No. 56: The best material for original Eppendorf Tubes® and Plates" at www.eppendorf.com. In case of doubt, contact Eppendorf Application Support.				
Dimensions	Acc. to ANSI/SLAS 1-2	Acc. to ANSI/SLAS 1-2004, ANSI/SLAS 3-2004 and ANSI/SLAS 4-20041.				
Operational temperature	-86 °C to +100 °C					
Autoclavability	Autoclavable (121 °C,	Autoclavable (121 °C, 20 min). The stability of the single-use items can be compromised.				
Format	96/F-PP	96/U-PP	96/V-PP		384/F-PP	384/V-PP
Bottom shape of the wells	Flat	Round	Conical		Flat	Conical
Theoretical volume per well	400 µL	360 μL	350 μL		150 μL	140 μL
Working volume per well	50-350 μL	20-320 μL	20-300 μL		10-120 μL	5-120 μL
Max. centrifugation stability	PCR clean, Protein Lol	Bind, DNA LoBind		Sterile		
	6,000 × g			6,000 × g		

For specific and detailed operating conditions please refer to the instructions for use.

Sealing options

	Heat Sealing Film	Heat Sealing Foil	Masterclear <i>real-time</i> PCR Film	PCR Film	PCR Foil	Storage Film	Storage Foil	Sealing Mat	Plate Lid
Material	Polyester	Aluminum	Polyester	Polyester	Aluminium	Polyester	Aluminum	TPE	Polystyrene
Resistance to chemicals		Compare with Application Note No. 56: "The best material for original Eppendorf Tubes [®] and Plates" at www.eppendorf.com/manuals							
Autoclavability			Not autoclavable				Autoclavable 121 °C, 20 min	Not auto- clavable	
Operational temperature	-86 °C to	+110 °C	-20 °C to +120 °C				-86 °C to +120 °C	-86 °C to +60 °C	
Pierceable/ not pierceable	Not pierce- able	Pierceable	Not pierce- able	Not pierce- able	Pierceable	Not pierce- able	Pierceable	Pierceable	Not pierce- able
Transparency	Transparent	Nontrans- parent	Transparent	Transparent	Nontrans- parent	Transparent	Nontrans- parent	Nontrans- parent	Transparent
Peelability	Not peelable post-applica- tion		Peelable or removable post application						

For specific and detailed operating conditions please refer to the instructions for use.

Material	Polypropylene, colored, colo	orless		
Resistance to chemicals	"The best material for origin	show a high resistance to UN nal Eppendorf Tubes® and Pla pendorf Application Support.	ites" at www.eppendorf.com.	o Application Note No. 56:
Dimensions	Acc. to ANSI/SLAS 1-2004,	ANSI/SLAS 3-2004 and ANSI	/SLAS 4-20041.	
Operational temperature	-86 °C to +100 °C			
Autoclavability	Autoclavable (121 °C, 20 mi	n). The stability of the single	use items can be compromis	ed.
Format	96/2,000 μL	96/1,000 μL	96/500 μL	384/200 μL
Bottom shape of the wells	Conical	Round	Round	Conical
Well shape	Square	Round	Round	Square
Theoretical volume per well	2,400 μL	1,200 μL	700 μL	240 μL
Working volume per well	50-2,000 μL	30-1,000 μL	30-550 μL	20-225 μL
Max. centrifugation stability	PCR clean, Protein LoBind,	DNA LoBind	Sterile	
	6,000 × <i>g</i>		5,000 × g	

For specific and detailed operating conditions please refer to the instructions for use.



Eppendorf twin.tec[®] PCR Plates

Ordering information*1

Description	OptiTrack [®] frame color	Order no.
twin.tec [®] PCR Plate 96, skirted, PCR clean		
colorless, 25 pcs.		0030 128.648
yellow, 25 pcs.	yellow	0030 128.656
green, 25 pcs.	green	0030 128.664
blue, 25 pcs.	blue	0030 128.672
red, 25 pcs.	red	0030 128.680
colorless, 300 plates (12 bags × 25 plates)		0030 128.770*
yellow, 300 plates (12 bags × 25 plates)	yellow	0030 128.788*
green, 300 plates (12 bags × 25 plates)	green	0030 128.796*
blue, 300 plates (12 bags × 25 plates)	blue	0030 128.842*
red, 300 plates (12 bags × 25 plates)	red	0030 128.850*
twin.tec [®] PCR Plate 96, semi-skirted, PCR clean		
colorless, 25 pcs.		0030 128.575
yellow, 25 pcs.	yellow	0030 128.583
green, 25 pcs.	green	0030 128.591
blue, 25 pcs.	blue	0030 128.605
red, 25 pcs.	red	0030 128.613
twin.tec® PCR Plate 96, unskirted, low profile, PCR	clean	
colorless, 20 pcs.		0030 133.307
yellow, 20 pcs.	yellow	0030 133.315
green, 20 pcs.	green	0030 133.323
blue, 20 pcs.	blue	0030 133.331
red, 20 pcs.	red	0030 133.340
twin.tec [®] PCR Plate 96, unskirted, 250 µL, PCR clea	n	
colorless, 20 pcs.		0030 133.366
blue, 20 pcs.	blue	0030 133.390

Description	OptiTrack [®] frame color	Order no.
twin.tec [®] PCR Plate 96, unskirted, divisible, low pr	ofile, PCR clean	
colorless, 20 pcs.	□ colorless	0030 133.358
blue, 20 pcs.	blue	0030 133.382
twin.tec [®] PCR Plate 96, unskirted, divisible, 250 μL	., PCR clean	
colorless, 20 pcs.		0030 133.374
blue, 20 pcs.	blue	0030 133.404
twin.tec [®] microbiology PCR Plate 96, skirted		
colorless, 10 pcs.		0030 129.300
blue, 10 pcs.	blue	0030 129.318
twin.tec [®] microbiology PCR Plate 96, semi-skirted		
colorless, 10 pcs.		0030 129.326
blue, 10 pcs.	blue	0030 129.334
twin.tec® microbiology PCR Plate 384		
colorless, 10 pcs.		0030 129.342
blue, 10 pcs.	blue	0030 129.350
twin.tec [®] PCR Plate 384, PCR clean		
colorless, 25 pcs.		0030 128.508
yellow, 25 pcs.	yellow	0030 128.516
green, 25 pcs.	green	0030 128.524
blue, 25 pcs.	blue	0030 128.532
red, 25 pcs.	red	0030 128.540
colorless, 300 plates (12 bags \times 25 plates)		0030 128.931
yellow, 300 plates (12 bags × 25 plates)	<mark>-</mark> yellow	0030 128.940
green, 300 plates (12 bags × 25 plates)	green	0030 128.958
blue, 300 plates (12 bags × 25 plates)	blue	0030 128.966
red, 300 plates (12 bags × 25 plates)	red	0030 128.974

*1 Several twin.tec® plates are also available in the purity grade »Forensic DNA Grade« (www.eppendorf.com/plates)
*2 Large customer packs

Eppendorf twin.tec® Trace PCR Plates

Ordering information

Description	OptiTrack [®] frame color	Order no.
twin.tec [®] Trace PCR Plate 96, skirted, PCR clea	an	
colorless, 25 pcs.		0030 129.768
crystal blue, 25 pcs.	crystal blue	0030 129.776
fuchsia, 25 pcs.	fuchsia	0030 129.784
twin.tec [®] Trace PCR Plate 96 LoBind, skirted,	PCR clean	
colorless, 20 pcs.		0030 129.822

Eppendorf twin.tec® PCR Plate BioBased

Description	Frame color	Order no.
Eppendorf twin.tec® PCR Plate BioBased 96, skirted, 150 µL, PCR clear	1	
colorless, 25 plates		0030 129 849
spring green, 25 plates	spring green	0030 129 857

* Can replace the following Eppendorf twin.tec® PCR Plates and Eppendorf twin.tec® Trace PCR Plates: 0030 128 848, 0030 128 656, 0030 128 664, 0030 128 672, 0030 128 680, 0030 128 770, 0030 128 788, 0030 128 796, 0030 128 842, 0030 128 850, 0030 129 768, 0030 129 776 and 0030 129 784. Please note that color and packaging size can differ.

Eppendorf Deepwell Plates

Ordering information

Description	OptiTrack [®] frame color	Order no.
Deepwell Plate 96/2000 μL, wells clear, 2,000 μL		
PCR clean, 20 plates (5 bags × 4 plates)	□white	0030 501.306
PCR clean, 20 plates (5 bags × 4 plates)	yellow	0030 501.314
PCR clean, 20 plates (5 bags × 4 plates)	green	0030 501.330
PCR clean, 20 plates (5 bags × 4 plates)	blue	0030 501.349
PCR clean, 80 plates (10 bags × 8 plates)	□white	0030 505.301
sterile, 20 plates (5 bags × 4 plates)	□white	0030 502.302
sterile, 20 plates (5 bags × 4 plates)	yellow	0030 502.310
sterile, 20 plates (5 bags × 4 plates)	green	0030 502.337
sterile, 20 plates (5 bags × 4 plates)	blue	0030 502.345
sterile, 80 plates (10 bags × 8 plates)	□white	0030 506.308
Deepwell Plate 96/1000 μL, wells clear, 1,000 μL		
PCR clean, 20 plates (5 bags × 4 plates)	□white	0030 501.209
PCR clean, 20 plates (5 bags × 4 plates)	yellow	0030 501.217
PCR clean, 20 plates (5 bags × 4 plates)	green	0030 501.233
PCR clean, 20 plates (5 bags × 4 plates)	blue	0030 501.241
PCR clean, 80 plates (10 bags × 8 plates)	□white	0030 505.204
sterile, 20 plates (5 bags × 4 plates)	□white	0030 502.205
sterile, 20 plates (5 bags × 4 plates)	yellow	0030 502.213
sterile, 20 plates (5 bags × 4 plates)	green	0030 502.230
sterile, 20 plates (5 bags × 4 plates)	blue	0030 502.248
sterile, 80 plates (10 bags × 8 plates)	□white	0030 506.200
Deepwell Plate 96/500 μL, wells clear, 500 μL		
PCR clean, 40 plates (5 bags × 8 plates)	□white	0030 501.101
PCR clean, 40 plates (5 bags × 8 plates)	yellow	0030 501.110
PCR clean, 40 plates (5 bags × 8 plates)	green	0030 501.136
PCR clean, 40 plates (5 bags × 8 plates)	blue	0030 501.144
PCR clean, 120 plates (10 bags × 12 plates)	□white	0030 505.107
sterile, 40 plates (5 bags × 8 plates)	□white	0030 502.108
sterile, 40 plates (5 bags × 8 plates)	yellow	0030 502.116
sterile, 40 plates (5 bags × 8 plates)	green	0030 502.132
sterile, 40 plates (5 bags × 8 plates)	blue	0030 502.140
sterile, 120 plates (10 bags × 12 plates)	□white	0030 506.103
Deepwell Plate 384/200 μL, wells clear, 200 μL		
PCR clean, 40 plates (5 bags × 8 plates)	□white	0030 521.102
PCR clean, 120 plates (10 bags × 12 plates)	□white	0030 525.108
sterile, 40 plates (5 bags × 8 plates)		0030 522.109
sterile, 120 plates (10 bags × 12 plates)	□white	0030 526.104
* Eppendorf big pack		

Eppendorf Microplates

OptiTrack [®] frame color	Order no.
□ white	0030 601.106
□white	0030 602.102
white	0030 601.203
□white	0030 602.200
white	0030 601.300
white	0030 602.307
□white	0030 621.107
□white	0030 622.103
□white	0030 621.301
□white	0030 622.308
	white white white white white white white white white

Eppendorf Assay and Reader Microplates

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ronlate 96/E	wol

Well color	Border color	Order no.
white	gray	0030 601.475
white	gray	0030 601.572
white	gray	0030 601.670
white	gray	0030 621.670
black	□white	0030 601.700
black	□white	0030 601.807
black	□white	0030 601.904
black	□white	0030 621.905
	□ white □ white □ white □ white ■ black ■ black ■ black	Image: state with the state with th

Eppendorf Protein LoBind Plates

Ordering information: Eppendorf LoBind®

Description	OptiTrack [®] frame color	Order no.
Microplate 384/V-PP, Protein LoBind		
PCR clean, 80 plates (5 × 16 plates)	□white	0030 624.300
PCR clean, 240 plates (10 × 24 plates)	□white	0030 628.306*
Deepwell Plate 96/2000 µL, Protein LoBind		
PCR clean, 20 plates (5 bags × 4 plates)	□white	0030 504.305
Deepwell Plate 96/1000 µL, Protein LoBind		
PCR clean, 20 plates (5 bags × 4 plates)	□white	0030 504.208
PCR clean, 20 plates (5 bags × 4 plates)	yellow	0030 504.216
PCR clean, 80 plates (10 bags \times 8 plates)	□white	0030 508.203*
Deepwell Plate 96/500 µL, Protein LoBind		
PCR clean, 40 plates (5 bags × 8 plates)	□white	0030 504.100
PCR clean, 40 plates (5 bags × 8 plates)	yellow	0030 504.119
PCR clean, 120 plates (10 bags × 12 plates)	□white	0030 508.106*
Deepwell Plate 384/200 µL, Protein LoBind		
PCR clean, 40 plates (5 bags × 8 plates)	□white	0030 524.101
PCR clean, 120 plates (10 bags × 12 plates)	white	0030 528.107*

* Eppendorf big pack

Eppendorf DNA LoBind Plates

Description	OptiTrack [®] frame color	Order no.
Microplate 96/V-PP, DNA LoBind		
PCR clean, 80 plates (5 bags × 16 plates)	□white	0030 603.303
Microplate 384/V-PP, DNA LoBind		
PCR clean, 80 plates (5 bags × 16 plates)	□white	0030 623.304
PCR clean, 240 plates (10 bags × 24 plates)	□white	0030 627.300*
Deepwell Plate 96/1000 μL, DNA LoBind		
PCR clean, 20 plates (5 bags × 4 plates)	□white	0030 503.201
PCR clean, 20 plates (5 bags × 4 plates)	blue	0030 503.244
PCR clean, 80 plates (10 bags × 8 plates)	□white	0030 507.207*
Deepwell Plate 96/500 μL, DNA LoBind		
PCR clean, 40 plates (5 bags × 8 plates)	□white	0030 503.104
PCR clean, 40 plates (5 bags × 8 plates)	blue	0030 503.147
PCR clean, 120 plates (10 bags × 12 plates)	□white	0030 507.100*
Deepwell Plate 384/200 µL, DNA LoBind		
PCR clean, 40 plates (5 bags × 8 plates)	□white	0030 523.105
PCR clean, 120 plates (10 bags × 12 plates)	□white	0030 527.100*
* Eppendorf big pack		

Eppendorf twin.tec® PCR Plates LoBind

Description	OptiTrack [®] frame color	Order no.
twin.tec [®] PCR Plate 96 LoBind, skirted, PCR clean		
colorless, 25 plates (5 bags × 5 plates)		0030 129.512
yellow, 25 plates (5 bags × 5 plates)	yellow	0030 129.679
green, 25 plates (5 bags × 5 plates)	green	0030 129.660
blue, 25 plates (5 bags × 5 plates)	blue	0030 129.580
red, 25 plates (5 bags × 5 plates)	red	0030 129.598
yellow, 300 plates (12 bags × 25 plates)	yellow	0030 129.563
green, 300 plates (12 bags × 25 plates)	green	0030 129.555
orange, 300 plates (12 bags × 25 plates)	orange	0030 129.571
twin.tec [®] PCR Plate 96 LoBind, semi-skirted, PCR c	lean	
colorless, 25 plates (5 bags × 5 plates)		0030 129.504
twin.tec [®] PCR Plate 384 LoBind, skirted, PCR clean		
colorless, 25 plates (5 bags × 5 plates)		0030 129.547

Eppendorf twin.tec[®] real-time PCR Plates

Description	OptiTrack [®] frame color	Order no.
twin.tec [®] 96 real-time PCR Plate, skirted, PCR	Clean	
blue, 25 pcs.	blue	0030 132.505
white, 25 pcs.	□white	0030 132.513
twin.tec® 96 real-time PCR Plate, semi-skirted,	PCR Clean	
blue, 25 pcs.	blue	0030 132.530
white, 25 pcs.	□white	0030 132.548
twin.tec [®] 96 real-time PCR Plate, unskirted low	profile, PCR Clean	
blue, 20 pcs.	blue	0030 132.718
white, 20 pcs.	white	0030 132.700

Sealing Options for Eppendorf Plates®

Description	Order no.
Sealing options for Eppendorf Plates®	
Eppendorf Storage Film, self-adhesi ve, PCR clean, 100 pcs. (2 bags × 50 pcs.)	0030 127.870
Eppendorf Storage Foil, self-adhesive, PCR clean, 100 pcs.	0030 127.889
Eppendorf Sealing Mat, for DWP 96/1000, Eppendorf Quality, 80 pcs. (5 bags × 16 pcs.)	0030 127.552
Eppendorf Sealing Mat, for DWP 96/2000, Eppendorf Quality, 50 pcs. (5 bags × 10 pcs.)	0030 127.579
Eppendorf Plate Lid, for MTP and DWP, PCR clean, 80 pcs. (5 bags × 16 pcs.)	0030 131.517
Eppendorf Plate Lid, for MTP and DWP, sterile, 80 pcs. (5 bags × 16 pcs.)	0030 131.525
Sealing options for PCR Plates	
Masterclear® real-time PCR Film adhesive, 100 sheets	0030 132.904
Heat Sealing Film, 100 pcs.	0030 127.838
Heat Sealing Foil, 100 pcs.	0030 127.854
PCR Film (adhesive), 100 pcs.	0030 127.811
PCR Foil (adhesive), 100 pcs.	0030 127.820

Eppendorf SafeCode Plates (pre-barcoded)

Ordering information

Description	OptiTrack [®] frame color	Order no.
SafeCode Plates can be ordered directly via our es	Shop or via our dealers	
twin.tec [®] PCR Plate 96, skirted, PCR clean		
colorless, 25 plates (5 bags × 5 plates)		0030 113.560
twin.tec [®] PCR Plate 384, skirted, PCR clean		
colorless, 25 plates (5 bags × 5 plates)	□ colorless	0030 113.578
Deepwell Plate 96/2000 µL, wells clear, PCR clean		
white, 20 plates (5 bags × 4 plates)	□white	0030 113.527
Deepwell Plate 96/1000 µL, wells clear, PCR clean		
white, 20 plates (5 bags × 4 plates)	□white	0030 113.535
Deepwell Plate 96/500 µL, wells clear , PCR clean		
white, 20 plates (5 bags × 8 plates)	□white	0030 113.543
Deepwell Plate 384/200 µL, wells clear , PCR clear	1	
white, 20 plates (5 bags × 8 plates)	□ white	0030 113.551
Microplate 96/V, wells clear , PCR clean		
white, 80 plates (5 bags × 16 plates)	□ white	0030 113.586
Microplate 384/V, wells clear , PCR clean		
white, 80 plates (5 bags × 16 plates)	□white	0030 113.594

Eppendorf Plates with Customized Barcodes

Description	Order no.
To ask for a quote please use the barcode customization process in our eShop or contact your dealer Frame colors are defined during customization process	
twin.tec® PCR plates 96, skirted	
standard, PCR clean, 25 plates (5 bags × 5 plates)	0030 128.460
standard, PCR clean, 300 plates (12 bags × 25 plates)	0030 128.702*
nicrobiology, 10 plates (single blistered)	0030 129.369
LoBind, PCR clean, 25 plates (5 bags × 5 plates)	0030 129.539
real-time, PCR clean, 25 plates (5 bags × 5 plates)	0030 132.572
eal-time, PCR clean, 300 plates (12 bags × 25 plates)	0030 132.602*
win.tec® Trace, PCR clean, 25 plates (5 bags × 5 plates)	0030 129.814
win.tec® Trace, LoBind, PCR clean, 25 plates (5 bags × 5 plates)	0030 129.830
win.tec® PCR plates 96, semi-skirted	
tandard, PCR clean, 25 plates (5 bags × 5 plates)	0030 128.478
standard, PCR clean, 300 plates (12 bags × 25 plates)	0030 128.877*
nicrobiology, 10 plates (single blistered)	0030 129.377
LoBind, PCR clean, 25 plates (5 bags × 5 plates)	0030 129.520
real-time, PCR clean, 25 plates (5 bags × 5 plates)	0030 132.564
real-time, PCR clean, 300 plates (12 bags × 25 plates)	0030 132.599*
Forensic DNA Grade, 10 plates (single blistered)	0030 129.695
win.tec® PCR plates 384	
tandard, PCR clean, 25 plates (5 bags × 5 plates)	0030 128.486
standard, PCR clean, 300 plates (12 bags × 25 plates)	0030 128.338*
nicrobiology, 10 plates (single blistered)	0030 129.385
LoBind, PCR clean, 25 plates (5 bags × 5 plates)	0030 129.687

Ordering information	
Description	
Deepwell Plate 96/2000µL, wells clear	
PCR clean, 80 plates (10 bags × 8 plates)	
sterile, 80 plates (10 bags × 8 plates)	
Protein LoBind, PCR clean, 80 plates (10 bags × 8 plates)	
Deepwell Plate 96/1000µL, wells clear	
PCR clean, 80 plates (10 bags × 8 plates)	
sterile, 80 plates (10 bags × 8 plates)	
DNA LoBind, PCR clean, 80 plates (10 bags × 8 plates)	
Protein LoBind, PCR clean, 80 plates (10 bags × 8 plates)	
Deepwell Plate 96/500µL, wells clear	
PCR clean, 120 plates (10 bags × 12 plates)	
sterile, 120 plates (10 bags × 12 plates)	
DNA LoBind, PCR clean, 120 plates (10 bags × 12 plates)	
Protein LoBind, PCR clean, 120 plates (10 bags × 12 plates))
Deepwell Plate 384/200µL, wells clear	
PCR clean, 120 plates (10 bags × 12 plates)	
sterile, 120 plates (10 bags × 12 plates)	
DNA LoBind, PCR clean, 120 plates (10 bags × 12 plates)	
Protein LoBind, PCR clean, 120 plates (10 bags × 12 plates))
Microplate 96, wells clear	
F-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 pl	lates)
F-bottom, white frame, sterile, 80 plates (5 bags × 16 plates	;)
U-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 p	lates)
U-bottom, white frame, sterile, 80 plates (5 bags \times 16 plates	s)
V-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 p	
V-bottom, white frame, sterile, 80 plates (5 bags \times 16 plates	5)
Microplate 96, wells white	
U-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 p	lates)
V-bottom, white frame, sterile, 80 plates (5 bags \times 16 plates	5)
Microplate 96, wells black	
F-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 pl	
U-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 p	lates)
V-bottom, white frame, sterile, 80 plates (5 bags × 16 plates	5)
Microplate 384, wells clear	
F-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 pl	
F-bottom, white frame, sterile, 80 plates (5 bags × 16 plates	
V-bottom, white frame, PCR clean, 80 plates (5 bags \times 16 p	
V-bottom, white frame, sterile, 80 plates (5 bags \times 16 plates	
F-bottom, white frame, DNA LoBind, 80 plates (5 bags \times 16	
F-bottom, white frame, Protein LoBind, 80 plates (5 bags \times	16 plates)
Microplate 384, wells black	
V-bottom, white frame, sterile, 80 plates (5 bags \times 16 plates	3)
* Eppendorf big pack	

* Eppendorf big pack

Order no.
0030 509.307*
0030 509.315*
0030 509.331*
0030 509.200*
0030 509.218*
0030 509.226*
0030 509.234*
0030 509.102*
0030 509.110*
0030 509.129*
0030 509.137*
0030 510.100*
0030 510.119*
0030 510.127*
0030 510.135*
0030 609.107
0030 609.115
0030 609.204
0030 609.212
0030 609.301
0030 609.310
0030 609.506
0030 609.603
0030 609.700
0030 609.808
0030 609.905
 0030 610.105
 0030 610.113
 0030 610.300
 0030 610.318
 0030 610.326
 0030 610.334
0030 610.903

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