



You Name It, We Have It

epT.I.P.S.[®] packaging options – for all your needs



Refilling epT.I.P.S.® Box 2.0 with new Sterile Reloads:
Contact-free transfer due to new patented TwinLid® technology.

»More Than Just a Packaging System«

When epT.I.P.S.® pipette tips were launched, it was not just a question of these tips being a perfect match to Eppendorf pipettes. The variety of the packaging system was also designed to provide suitable options for the needs of different laboratory types or applications. The heart of the system is the well-known epT.I.P.S. Box which can be refilled as needed with Reloads of different purity. This packaging system has set a standard in the pipette tip market and found many imitators.



Design

After almost 20 years, it is time to completely modernize the epT.I.P.S. brand design. In addition to renewing the shape and color scheme, features have also been optimized to offer customers even more benefits. Implemented in all variants, the new epT.I.P.S. design fits perfectly into a modern laboratory environment.

> More information: Page 8



Sustainability

With this new member of the epT.I.P.S. packaging system – and the new design of the sterile Reloads, we took the opportunity to significantly reduce plastic waste caused by the packaging of Eppendorf pipette tips.

> More information: Page 12



Usability

The disposable Racks, have become significantly slimmer and offer optimized safety for small hands, while at the same time using less plastic. The reusable Boxes have become safer to stack and the openings on the back have largely disappeared. The new Sterile Reloads also contribute to reduce storage space requirements.

> More information: Page 14

The Magician

epT.I.P.S.® Box 2.0

For e.g. non-sterile and non-critical applications



Reuse

Reusable indefinitely

The Experienced

epT.I.P.S.® Reloads

For e.g. high-throughput applications like NGS or qPCR



Reduce

Less plastic – less storage space needed

The Guardian

epT.I.P.S.® BioBased Sterile Reloads

For applications that require sterility in e.g. cell culture or microbiology or as filter tips for e.g. immunoassays



Reduce

Up to 54% less plastic compared to Racks

The Specialist

epT.I.P.S.® Racks

For applications that require highest safety level and purity in e.g. NGS, PCR or qPCR



Recycle

Virgin polypropylene – suitable for selective recycling

The Magician

epT.I.P.S.® Box 2.0

Its time to give this jewel in the epT.I.P.S. range a modern design with optimized functionalities. During nearly 20 successful years on the market, this reusable box has often been imitated but never equaled. Knowing that, it was a challenge to optimize our Box for even more benefits. Our customers drew our attention to details that we naturally could not resist optimizing. Like its predecessor, the epT.I.P.S. Box 2.0 is available in three sizes for epT.I.P.S. pipette tips from 10 µL to 5 mL and guaranteed to be autoclavable up to 100 times.

What's special

- > Patented »TwinLid®« technology
- > Reduced contamination risk – no evaporation slots
- > Improved safety through optimized stackability
- > New light-touch closing button for more ergonomoy
- > Box 2.0 is autoclavable up to 100 times



The famous epT.I.P.S.® Box in new design
Reusable with reloads and bulk ware



Userguide No. 38
»Cleaning and Decontamination of the epT.I.P.S.® Box 2.0«



1 The prominent visual slots on the back of the existing Box have, for the most part, disappeared. These openings, a cause of concern for some of our customers due to the possible contamination risk to the tips inside the Box, were removed almost entirely.

2 The classic epT.I.P.S. design has been updated without eliminating traditional features such as the horizontal indentations in the Box front, the blue colored transparent lid, the Eppendorf blue of the closure button.

3 Characteristic wave designed epT.I.P.S. Box 2.0 closing button in Eppendorf Blue for »light-touch« opening and closing, with patented TwinLid® technology.

4 Oblong indentations on the sides of the Box lids ensure optimized and safe stackability. 4 small silicone feet embedded in the bottom of the Box fit exactly into the indentations of the lid.



The epT.I.P.S. Boxes 2.0 are available in 3 different sizes in Eppendorf Quality. These variants as well as the autoclavability of the Box 2.0 enable their use with the bulk tips as well as with the pre-inserted Reload variants in Eppendorf Quality, PCR clean and the new sterile Reloads in PCR clean/Sterile and Biopur®.



Watch 3D animation about the famous epT.I.P.S.® Box: www.eppendorf.com/3d-box



Download Userguide No. 38: www.eppendorf.com/userguide38

The Experienced epT.I.P.S.® Reloads (non-sterile) and Bulk



epT.I.P.S.® Reloads – since 2002

Using reusable Boxes with tips stacked in Reloads means significant waste reduction compared with single-use Racks. Our non-sterile Reload variants – either packed in stack form or dual-sided – are unchanged since market launch and can be used with our new epT.I.P.S. Box 2.0. The Reloads allow contactless, contamination-free insertion into the Box. Both variants are designed in such a way that the remaining tips in the Reload are always protected.

epT.I.P.S.® Standard

These bulk packed pipette tips are original, high-quality Eppendorf pipette tips in resealable bags. They are available in all volumes from 10 µL to 10 mL. All pipette tips are autoclavable when manually inserted into the matching Box 2.0.



epT.I.P.S.® Reloads

Reloads are available in volumes up to 2.5 mL in two purity grades: Eppendorf Quality and PCR clean. The Reload – Box 2.0 system is optimized for use with multichannel pipettes too. Both variants can be autoclaved in advance and stored for future use or when refilled in Box 2.0.

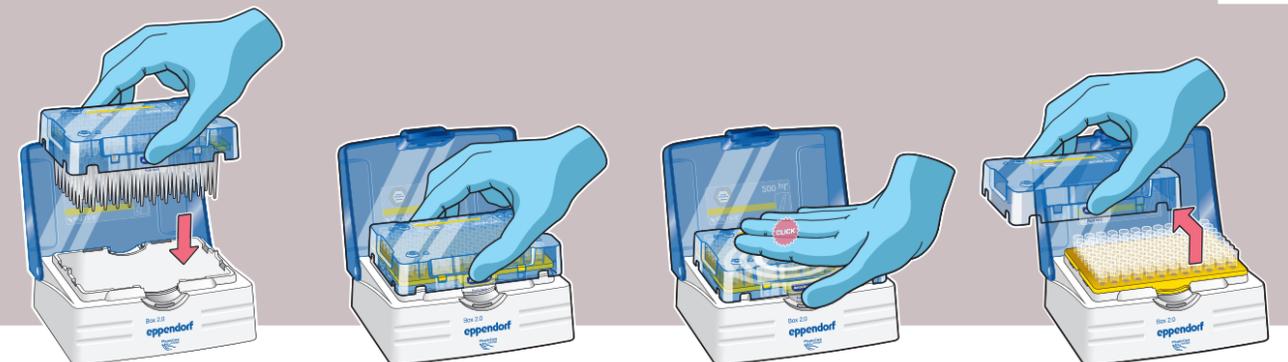


Read more on page 16



Refilling epT.I.P.S. Box 2.0 with Reloads

Four steps to transfer the Reload trays contact-free to your Box 2.0.



For more details check our PDF »It's Your Choice«



The Guardian

epT.I.P.S.® BioBased Sterile Reloads



Our latest resource saving contribution

Reduction of plastic and the use of fossil raw material is a common need in all laboratories worldwide. Following the »Reduce & Reuse«-principle, the new Sterile Reload from Eppendorf for the new sterile ep Dualfilter T.I.P.S. BioBased and epT.I.P.S. BioBased requires significantly less fossil-based polypropylene than corresponding disposable Racks. Thus it contributes significantly to laboratory waste reduction. New Sterile Reloads are available for tip volumes up to 1,250 µL.

Refilling epT.I.P.S.® Box 2.0 with new Sterile Reloads

- > Up to 54 % less plastic compared to Racks
- > Patented »TwinLid« technology
- > Safe and easy insertion of complete Reload into Box 2.0
- > Sterility packaging is compliant to standards DIN EN ISO 11607 and DIN EN 868-2-10
- > Scannable code on each Reload



Experience the Magic!
Bio-based, Less Plastic, Less Waste
 The new epT.I.P.S.® Sterile Reload System



Safe sterility – Reduced laboratory waste

The new Sterile Reloads are available for:

- > epT.I.P.S.® BioBased Reloads Biopur®
- > ep Dualfilter T.I.P.S.® BioBased Reloads PCR clean/Sterile
- > ep Dualfilter T.I.P.S.® SealMax® BioBased Reloads Biopur®



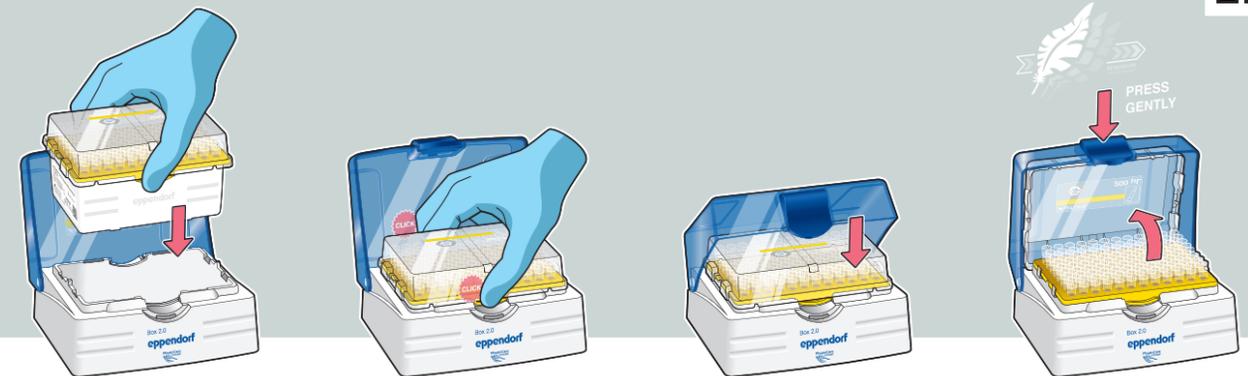
ISCC Plus (International Sustainability & Carbon Certification) is a global certification program for circular economy and bioeconomy. The certification enables traceability along the entire supply chain and is also applicable to products based on waste, residues and recyclable materials.



Read more on page 16

Refilling epT.I.P.S. Box 2.0 with new Sterile Reloads

Four steps to transfer the complete Sterile Reload contact-free to your Box 2.0 while safeguarding the sterility of the tips.



For more details check our PDF »Quick Start Guide«



More information needed?
 Click or scan to follow:
www.eppendorf.com/epTIPS-News



Watch 3D animation about
 epT.I.P.S.® Sterile Reload System:
www.eppendorf.com/3d-sterile-reload

The Specialist

epT.I.P.S.® Racks

Irreplaceable! epT.I.P.S.® Racks for utmost safety requirements

There are always important reasons where working with Reloads is not a solution. But even for our disposable Racks, we found a way to reduce the amount of plastic. Our »Reduce & Reuse«-principle for the new epT.I.P.S. design made it possible to save up to 35 % polypropylene compared to predecessor Racks for pipette tips. This new design combines significantly less raw material consumption and thus corresponding waste reduction with optimized functionality. In addition, significantly improved handling benefits for the user could be achieved.

Tip and tray quality remain unchanged

- > Slim Rack size – easy to carry even for small hands
- > Lid with locking option – can be reclosed after use for more tip and handling safety
- > Optimized stackability – all Rack sizes can be safely stacked on each other
- > Sterility packaging is compliant to standards DIN EN ISO 11607 and DIN EN 868-2-10
- > Scannable code on each Rack



Modern Design – Less Plastic
epT.I.P.S.® Racks completely renewed



5

Modern design – Less plastic

Reduced use of plastic for the Rack without affecting tip quality was our goal. When redesigning the epT.I.P.S./ep Dualfilter T.I.P.S. disposable Racks, we paid particular attention to using as little plastic as possible while optimizing handling. 20 % to 35 % less polypropylene for production depending on Rack size is the result of intensive development work.

- 1 Due to the particularly slim design of the container, it can also be grasped by small hands without any problem.
- 2 Racks can be firmly reclosed with safe closing mechanism.
- 3 Oblong indentations on the sides of the Rack lids ensure optimized and safe stackability.
- 4 The purity seal on the closure button certifies the integrity of the product.
- 5 All Rack variants, regardless of their size, can be safely stacked on top of each other.



1



2



3



The epT.I.P.S. disposable Racks are available in 4 different sizes for pipette tips in volumes from 10 µL to 10 mL for epT.I.P.S. pipette tips and pipette filter tips in different purities:

- > epT.I.P.S.® Biopur®
- > epT.I.P.S.® Sterile (North America only)
- > ep Dualfilter T.I.P.S.® PCR clean/Sterile
- > ep Dualfilter T.I.P.S.® SealMax® PCR clean/Sterile
- > ep Dualfilter T.I.P.S.® Forensic DNA Grade

epT.I.P.S. pipette tips in Biopur purity are also available individually packed – epT.I.P.S. Singles for volumes of 20 µL, 200 µL and 1,000 µL.



Watch 3D animation about epT.I.P.S.® Racks:
www.eppendorf.com/3d-racks



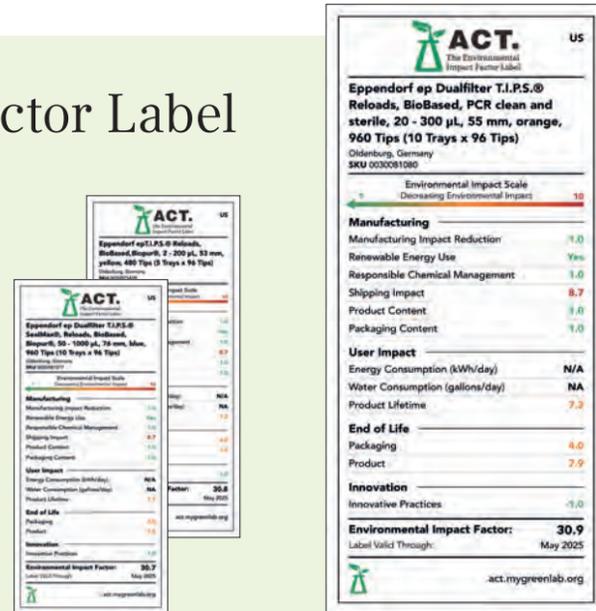
For more details check our PDF »Sustainability Facts & Figures«:
www.eppendorf.com/Racks-Facts

The Environmental Impact Factor Label

epT.I.P.S.® Reloads and Sterile Reloads received ACT® certification from My Green Lab®

Both Reload variants from Eppendorf have been awarded the ACT label which evaluates a product's overall environmental impact based on several sustainability factors, including manufacturing, packaging, energy consumption and recyclability. Eppendorf liquid handling consumables are manufactured in northern Germany using 100% renewable wind energy.

In the evaluation of the epT.I.P.S. Sterile Reloads, it was particularly positively assessed that this new pipette tip packaging option can replace the conventional disposable Rack vessel in a variety of sterile applications, thus achieving significant plastic savings up to 54% in manufacturing, significantly reducing logistics effort and storage capacity, and avoiding laboratory waste.



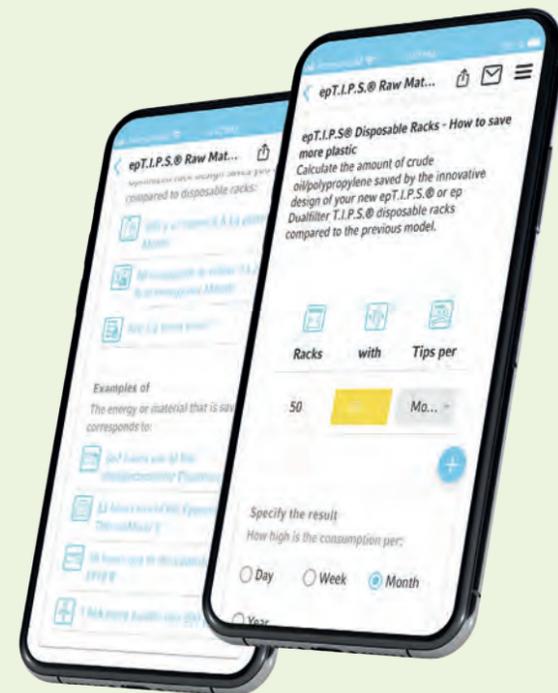
For more information: <https://act.mygreenlab.org>

epT.I.P.S.® Raw Material Calculators

Do you know our Eppendorf App?

In this app you find two integrated features showing how to save plastic in your lab: The Raw Material Calculator for epT.I.P.S. Racks and The Raw Material Calculator for new epT.I.P.S. Sterile Reloads.

Calculate how much raw material you save, when using the newly designed epT.I.P.S. Racks compared to their predecessors or when switching to the new epT.I.P.S. Sterile Reloads right away. At the same time, you will find out how much energy you have saved as a result and what it could be used for.



Rethink



For more information: www.eppendorf.com/sustainability

Our Contribution to Sustainability in the Laboratory

Eppendorf is very much aware of its social responsibility when it comes to sustainability and the environment. At the same time, we know about the key roles that plastic consumables play in the laboratory.

The balance between the demands of modern science and the concern for the environment with respect to plastic waste represent a central challenge for the management of a life science laboratory.

In the poster below, we have compiled ways in which more sustainability can also be made possible in your laboratory.

How to Become More Sustainable in Your Lab

Reduce waste, reuse materials, and recycle whenever possible – these are the tips you need

1. Reduce

- Minimize your experimental design**
Is it possible to perform your assay in a miniaturized design like a microwell plate?
Store your sample in the appropriately sized tube and storage boxes. Switching to smaller tubes and using correctly sized vessels reduces plastics and frees up storage space in your freezer. (1)
- Example:** You can start by reducing your sample preparation and using liquid phase Microextraction (LPME) or Solid Phase Microextraction (SPME). These techniques can be applied to obtain analytes out of very different matrices, ranging from water samples to blood samples to the detection of metabolites in cell culture supernatants (4, 5).
- Plan your experiments mindfully**
Well-thought-out planning ... of your experimental design helps you to avoid unnecessary repetition of experiments, invest your time in good planning and save resources.

2. Reuse

- Plastic isn't always single-use**
Consider reusing plastic items, e.g. tubes, for non-volatile or non-critical applications.
Some items can even be autoclaved and reused for sterile applications, take a look in the product specifications.
Use part of your product again. For instance, reuse plastic pipette boxes up to 100 times by using refill trays of pipette tips.
Check out if you can reorder single kit components (e.g. for your plasmid extraction kit).
- Packaging**
Choose packaging material, like cardboard boxes or Styrofoam® boxes to send your items or use bags again as waste bags etc.
Take care and be aware that your packaging material isn't contaminated!
Ask your vendors about take-back programs.
Example: Stainless steel bottles can be an alternative to store solvents, especially when you use larger volumes. These can be taken back and reused.
- Choose alternatives**
Consider reusable alternatives for single-use items.
Example: Pre-sterilized plastic loops to transfer bacteria and inoculate culture media can be exchanged for reusable nichrome loops that are sterilized by glowing them out in the flame of a Bunsen burner. Cell scrapers made of glass can be cleaned and reused multiple times. (6)
- Can this result be achieved in other ways?**
Example: In some experiments, you have to dispense liquids in several tubes, e.g. 96-well plates into the appropriate glass vessels. Instead of pipetting the solvent, consider using a dispenser (Nospense®250) with an adapted attachment.
- Autoclavability of the materials reduces plastic consumption**
epT.I.P.S.® Box 2.0 can be autoclaved up to 100 times.
For special purity and sterility needs use Reload® Box systems like epT.I.P.S.® Box 2.0 with tips stacked in reloads.

4. Recycle

- Know your waste management**
Get to know the waste management and recycling streams in your institution.
How to separate the different waste streams like paper, cardboard, plastics, ... and where to dispose of it.
- Have a further look ...**
Some reagent vendors provide take-back programs, e.g. for styrofoam boxes – ask for and use them.
Some vendors use recycled content for their packaging. Choose these vendors and support them. The ACT label can be helpful – among other things, the proportion of recycled material in a package is also evaluated. The ACT label is like an eco-innovation label for lab products, providing information about the environmental impact of manufacturing, using, and disposing of a product and its packaging.

3. Rethink

- ... your routines**
When establishing a new method, think about alternative materials, think about safe and ecologic alternatives for solvents, etc.). Also, include keywords like 'green', 'sustainable', 'resource efficient' in your laboratory research.
Start by asking yourself 'Where can I change something?' and be aware that even little changes are worth the effort!
- ... communication**
Exchange best practices in your lab community or with other research groups.
Start by asking yourself 'Where can I change something?' and be aware that even little changes are worth the effort!

A decision guide: glass vials or plastic vials

	Glass vials	Plastic vials
Durability	✓	✓
Safety	✓ Glass breakage is problematic from the point of view of Health & Safety at work due to the risk of injury.	✓
Stability	✓ In principle, but you have the risk of glass breakage. Always handle with care!	✓
Single-use	✓ The production of laboratory glassware is energy intensive.	✓ The production of plastic items is less energy intensive than laboratory glass vials.
Multi-use	✓ Depending on the application.	✓ Depending on the application.
Recyclability	✓ Laboratory glassware is made of borosilicate, which is a high melting point glass. It cannot be recycled like common glass and has to be disposed of as special waste.	✓ Plastic products could be recycled in principle, but there is the risk of contamination. Therefore, it is better to dispose of it separately. If you have doubts, contact your waste management. (In some countries, this waste is still manually recycled to recover energy and heat.)
Special requirements	✓ Questions to ask to decide which item fits best your needs: What do you need this item for? Does it have to fulfil special requirements (such as being sterilizable)?	✓

Download Poster (PDF): [How to Become More Sustainable in Your Lab](#)



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epT.I.P.S.® Packaging Options



Type of tips	Standard/Bulk	Box 2.0	Sets (Box 2.0 + 5 Reloads)
epT.I.P.S.® Eppendorf Quality	10 µL-10 mL long	10 µL-5.0 mL	10 µL-2.5 mL
epT.I.P.S.® PCR clean			
epT.I.P.S.® Biopur®			
epT.I.P.S.® LoRetention® Eppendorf Quality			10 µL-1,000 µL
epT.I.P.S.® LoRetention® PCR clean			
ep Dualfilter T.I.P.S.® PCR clean/Sterile			
ep Dualfilter T.I.P.S.® Forensic DNA Grade			
ep Dualfilter T.I.P.S.® LoRetention®, PCR clean/Sterile			
ep Dualfilter T.I.P.S.® SealMax® PCR clean/Sterile			
epT.I.P.S.® 384 Eppendorf Quality			20 µL- 100 µL
epT.I.P.S.® 384 PCR clean			
ep Dualfilter T.I.P.S.® 384 PCR clean/Sterile			
Characteristics	Non-sterile and non-critical applications > e.g. buffer preparation or gel loading > Less storage space > Autoclavable	Non-sterile and non-critical applications > e.g. buffer preparation or gel loading > Refill system > Autoclavable	Non-sterile and high-throughput applications > e.g. buffer preparation or gel loading > e.g. handling of 384 well plates » epT.I.P.S.® 384 > Refill system > Autoclavable

Reloads	Sterile Reloads	Racks	Singles
10 µL-2.5 mL		5.0 mL- 10 mL	
10 µL-2.5 mL		5.0 mL	
	20 µL-1,250 µL L	20 µL-10 mL	20 µL-2.5 mL
10 µL-1,000 µL			
10 µL-1,000 µL			
20 µL-1,250 µL L	20 µL-1,250 µL L	10 µL-2.5 mL	
	10 µL-1,000 µL	10 µL-1,000 µL	
	20 µL-1,000 µL (Biopur)	10 µL-1,000 µL	
20 µL- 100 µL			
20 µL- 100 µL			
		20 µL-100 µL	
Non-sterile and high-throughput applications > e.g. molecular biology (PCR, qRT-PCR) > e.g. biochemistry (Triton® X-100, SDS and Tween® 20) » epT.I.P.S.® LoRetention® > e.g. handling of 384 well plates » epT.I.P.S.® 384 > Refill system > Autoclavable	Sterile and high-throughput applications > e.g. molecular biology (PCR, qRT-PCR, NGS) > e.g. biochemistry (immunoassays) » epDualfilter T.I.P.S.® LoRetention® > e.g. cell culture and microbiology (media) > Radioactive reagents or aerosols » epT.I.P.S. Dualfilter > e.g. handling of 384 well plates > Refill system	Highly sensitive and high-throughput applications > e.g. molecular biology (PCR, qRT-PCR, NGS) > e.g. biochemistry (immunoassays) » epDualfilter T.I.P.S.® LoRetention® > e.g. cell culture and microbiology (media) > Radioactive reagents or aerosols » epT.I.P.S. Dualfilter > Ready to use > Certificates are provided	Most sensitive applications > e.g. molecular biology (PCR, qRT-PCR, NGS) > e.g. biochemistry (immunoassays) > e.g. cell culture and microbiology (media) > Date of expiry and charge no. on every blister > Certificates are provided

Get to Know the Eppendorf Tubes® & epT.I.P.S.® BioBased

Since oil-based plastic lab consumables replaced glass products, they have become irreplaceable in laboratories around the world, providing the high quality standards needed in increasingly demanding research. However, this poses a growing challenge in respect to sustainability. This is why Eppendorf not only focuses on the development of new products but also on new, more environmentally friendly manufacturing materials. We have even succeeded in finding a polypropylene based on renewable raw materials which we are now using for the production of new generations of pipette tips and tubes.

Eppendorf Tubes® BioBased Sterile, pyrogen-, DNase-, RNase- and DNA-free, are available with screw cap in volumes 5 mL, 15 mL, 25 mL and 50 mL.

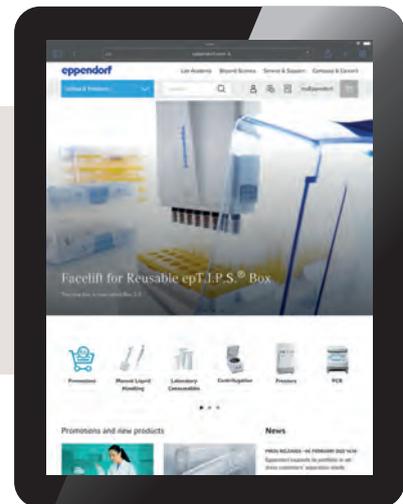
epT.I.P.S.® BioBased Biopur® pipette tips, ep Dualfilter T.I.P.S.® BioBased PCR clean/Sterile and ep Dualfilter T.I.P.S.® SealMax® BioBased Biopur® filter pipette tips are available packed in new Sterile Reloads.



Want to learn more go to:
www.eppendorf.com/biobased



Interested in other Eppendorf products?
Please visit our website.
www.eppendorf.com/eshop



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