

Eppendorf Advantage

Advance your research through insights, solutions, optimal outcomes, and our special offers.

JULY 1 – DECEMBER 31, 2020

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WHAT'S IN A NAME?

Advantage means putting you in a better position, and that's exactly what we want for you.

For 75 years we have been dedicated to supporting scientists. We understand the value of your samples and the time and effort you invest in the lab. The resources

and solutions we provide, through our consumables, instruments and services, are designed to help advance your research, which has never been more important than it is today. This issue of Advantage is filled with helpful articles, bi-annual promotional offers and FUN activities, all of which will help give you the Advantage in the lab!

Are You Experiencing Unexplained Sample Loss?

Centrifugation involves spinning samples at high speeds, which generates heat. When working with temperature-sensitive samples like RNA and proteins, heat can be highly detrimental to the sample, causing thermal degradation or otherwise affecting the reproducibility of results. To actively and accurately control the temperature in a centrifuge, refrigeration is used to counteract the heat being produced, and to ensure samples remain at the desired temperature retaining integrity and reproducibility.

COOLING FOR PRECISE TEMPERATURE STABILITY

Many refrigerated centrifuges control the temperature by toggling the compressor on and off, which can lead to significant temperature fluctuations. Eppendorf controls temperature around the set point by regulating the compressor function to provide greater temperature accuracy and protect your samples from fluctuations. Continuous cooling after the run has finished ensures your samples remain at the desired temperature until you are ready to retrieve them.



COMMON APPLICATIONS

- ▶ RNA Isolation
- ▶ Protein Extraction
- ▶ Bead-Based Extraction
- ▶ Plasma Preparation
- ▶ Bacteria Harvesting



DID YOU KNOW

In 1964 Eppendorf introduced Centrifuge 3200, the first centrifuge to form an integral part of the Eppendorf Microliter System, which revolutionized global research in the field of life science.

Sample Degradation Puts You Back at Square One

The refrigerated Centrifuge 5424 R is the lab standard when it comes to efficient cooling performance. Its state-of-the-art cooling technology ensures precise temperature accuracy for maximized sample protection.



WHY YOU WILL LOVE IT

- ▶ Get quick pre-cooling, from $\sim 21^{\circ}\text{C}$ to 4°C in only 8 minutes with FastTemp to save you time
- ▶ Protect your samples and reduce vibrations with patented compressor technology
- ▶ Enjoy quiet operation, even without a rotor lid, with the unique OptiBowl® design



SAVE TODAY



Purchase a Centrifuge 5424 R with efficient cooling for up to 24 x 1.5/2.0 mL tubes at a maximum speed of 15,000 rpm (21,130 x g) for the special price of just \$4,995, a savings of 34% off the regular list price!

- ▶ **\$4,995** – Cat. No. 2231000655: Centrifuge 5424 R, refrigerated, with 24 x 1.5/2.0 mL rotor, knob controls, and aerosol-tight lid, 120 V
- ▶ **\$4,995** – Cat. No. 2231000656: Centrifuge 5424 R, refrigerated, with 24 x 1.5/2.0 mL rotor, keypad controls, and aerosol-tight lid, 120 V



DID YOU KNOW

Like most Eppendorf microcentrifuges, Centrifuge 5424 R is available with either knob controls or keypad controls, so you can select which style best suits your needs and your preference.



Noise in the Lab Affects Productivity

Designed to optimize separation in many standard applications, Eppendorf Centrifuge 5425 is an essential piece of equipment for modern labs and high-throughput users expecting a top level of ergonomic comfort and the most quiet Eppendorf centrifuge available today.



SAVE TODAY



Purchase Centrifuge 5425 with 24 x 1.5/2.0 mL rotor and aerosol-tight lid and receive a FREE Repeater® M4 Starter Pack. The Starter Pack includes the Repeater M4, a Combitips® rack and assorted pack of Combitips advanced (1 µL – 10 mL), and a pipette holder.

- ▶ **\$3,162** – Cat. No. 2231010057: Centrifuge 5425, knob control, with 24 x 1.5/2.0 mL aerosol-tight containment rotor, 120 V, includes FREE Repeater M4 Starter Pack
- ▶ **\$3,162** – Cat. No. 2231010059: Centrifuge 5425, keypad control, with 24 x 1.5/2.0 mL aerosol-tight containment rotor, 120 V, includes FREE Repeater M4 Starter Pack

WHY YOU WILL LOVE IT

- ▶ Reduce stress with soft-touch, one-finger lid closure and whisper-quiet operation
- ▶ Prevent sample warming and get easy access with automatic lid opening at the end of the run
- ▶ Keep your samples protected and enable quick access to programs with 10 acceleration and braking ramps and 3 program buttons
- ▶ Spin faster with a rotor maximum speed of 21,300 x g or 15,060 rpm



DID YOU KNOW

The Repeater M4 is the ideal precision instrument for completing long pipetting series, such as dilutions. Even viscous or volatile liquids that are difficult to pipette are no match for the Repeater M4. Fill the tip once and dispense up to 100 times without a refill.

Is Your Benchtop Centrifuge a Bottleneck?

The Eppendorf Centrifuge 5910 R is the next benchmark in versatility, capacity, and convenience. The universal swing-bucket rotor enables high-throughput spins of up to 64 x 15 mL or 36 x 50 mL conical tubes.



WHY YOU WILL LOVE IT

- ▶ Keep samples safe with the exceptional cooling performance of the advanced refrigeration system
- ▶ Increase efficiency by spinning both tubes and plates in the universal swing-bucket rotor without the need to change buckets or adapters
- ▶ Protect yourself from hazardous samples with aerosol-tight bucket caps that feature a convenient handle for safe and easy carrying from the centrifuge to the biosafety cabinet



SAVE TODAY



Get 20% off a Centrifuge 5910 R Cell Culture Bundle with S-4 x universal rotor, aerosol-tight caps, and tube rack, all for just \$14,995. Plus, enjoy 40% off a second rotor of your choice!

- ▶ **\$14,995** – Cat. No. 2231010065: Centrifuge 5910 R, refrigerated, S-4x Universal Cell Culture Package, 120 V. Includes universal adapters for 5/15 mL/plate and 50 mL/Plate as well as aerosol-tight Eppendorf QuickLock® caps and a 5/15/50 mL tube rack.



DID YOU KNOW

Centrifuge 5910 R was not just designed to improve your workflow, but with ergonomics and sustainability in mind:

- ▶ A low lid access height facilitates easy loading and unloading, while the soft-touch lid closure enables simple lid closing with minimal force
- ▶ The adjustable ECO shut-off engages after a set period of non-use to reduce energy consumption and extend compressor life



Low Concentration Does Not Allow You to Move On

The Vacufuge® plus assures quick, efficient and gentle vacuum concentration of DNA/RNA, nucleotides, proteins, and other liquid samples.

WHY YOU WILL LOVE IT

- ▶ Ensure the right conditions for your sample with 3 operation modes (vacufuge, centrifuge, desiccator) and 3 application modes (aqueous, alcohol, high vapor pressure)
- ▶ Save valuable bench space with the complete system including integrated pump, all in a small footprint
- ▶ Enjoy simple and intuitive operation with the user-friendly control panel



SAVE TODAY



Get a Vacufuge plus complete system for \$9,995 and receive a FREE 3-pack of Eppendorf Research® plus pipettes. This package includes an integrated PTFE diaphragm vacuum pump and rotor for 48 x 1.5/2.0 mL tubes.

- ▶ **\$9,995** – Cat. No. 2231010058: Vacufuge plus, complete with pump and 48 x 1.5/2.0 mL rotor 120V/60 Hz. Bundle includes a 3-pack of Research plus single-channel, variable volume pipettes (100–1,000 µL, 0.5–5 mL, and 1–10 mL).



DID YOU KNOW

Reconcentrating DNA samples? Removing alcohol residues? Aliquoting enzymes?

Working with the Vacufuge plus is easy and allows for fast and gentle evaporation. By providing optimal evaporation conditions regarding the vapor pressure of the solvent and the temperature sensitivity of the samples, the Vacufuge plus saves time and prevents sample loss.

www.eppendorf.com/VacufugeplusAppNote

Word Search Challenge



Search up, down, forward, backwards, and diagonally to find the hidden words.

CENTRIFUGATION
BIOPROCESS
ADVANTAGE
EPPI

NEXUS GRADIENT
EPPENDORF
VACUFUGE
XPLORER

RESEARCH PLUS
PHYSIOCARE
MIXING
PCR

MASTERCYCLER
PIPETTING
SHAKING

E A Y V M C G Q D J L D R X N H C F X F
S A A T E D N X X W C S U M H E P P I Z
X S P A Z V N R V Y P T P X M I X I N G
C T H I E C E R E S E A R C H P L U S J
Z X Y T I Z X I H N I C F D P P D H T D
D O S D Z Y E U M A S T E R C Y C L E R
Q P I C F G S Q A S Q D Q Q X C S D T U
K R O B R I G B D H Q E R D K E C O R Q
N K C I T J R A V Y I N M A S N B H C S
B W A O Q E A T A K U I O P H T V V A S
S P R P X G D V N I N N E C A R V C D A
O I E R E F I Y T F G W P R K I A G K K
Q P N O T V E R A T Y E P X I F C U J E
J E O C G B N D G A A X E P N U U E T Z
L T P E T B T W E M J S N L G G F T Y E
I T Q S D A U E D V N V D O G A U Y H O
K I T S G J H J H N Q I O R E T G P K Q
J N Y T A G Y Q W V G K R E L I E H Y L
S G M L I Q W F I T M W F R R O G P W B
A D P A I N E P Z Y L N U R G N M E R T

Is Repetitive Stress Injury Threatening Productivity?

Workflows in today's labs are ever more condensed, and the strain of lab work steadily increases. Researchers spend hours a day pipetting, subjecting them to Repetitive Stress Injuries. RSIs can contribute to irreversible disabilities, leading to lost work and even affecting job security. For organizations, RSIs present a threat to overall productivity.

PHYSIOCARE® – ERGONOMICS IN THE LAB

The PhysioCare Concept® provides solutions to harmonize your lab's workflow with your well-being. Each Eppendorf pipette is designed with the PhysioCare Concept.

- ▶ Designed with a smooth, light-weight build and intuitive interface for a comfortable fit
- ▶ Low pipetting force reduces the risk of RSIs for all users
- ▶ The pipettes fit seamlessly into an ergonomic work space to optimize your workflow



PREVENTING AN RSI

Numerous tactics have been developed that prevent and alleviate the strains of repetitive pipetting, supporting the user's healthy and efficient workflow.

- ▶ Pipetting posture – sitting upright with elbows close to the body
- ▶ Stretching exercises – maintaining flexibility in the body
- ▶ Ergonomics – a light-weight, smooth, and intuitive product design



DID YOU KNOW

Thinking about switching to an electronic pipette? There are many advantages to switching to an electronic pipette. They improve accuracy and precision while reducing operational force and repetitive motion, making them perfect for creating an efficient workflow and alleviating strain.

Try the Eppendorf Xplorer®/Xplorer Plus electronic pipette and find out for yourself!

Try it at: www.eppendorf.com/Xplorer



Contamination Impacts Experiments

The Eppendorf Reference[®] 2 pipette can aspirate, dispense, blow out, and eject the pipette tip with a single button. Active aerosol reduction protects the user, sample and pipette from contamination when using sensitive solutions.

WHY YOU WILL LOVE IT

- ▶ See the display from every angle with 4-digit display, enabling more accurate volume setting
- ▶ Enjoy easy, user-friendly, secondary adjustment for non-aqueous liquids
- ▶ Aspirate, dispense, blow out, and eject the tip with the one button operation to minimize contamination risk
- ▶ Quickly adjust the volume setting and secure it with the volume lock to reduce errors



SAVE TODAY



Get 4 single-channel adjustable volume pipettes (options below), 1 full box of epT.I.P.S.[®] for each pipette, Repeater[®] M4, Easypet[®] 3, Pipette Carousel 2, Pipette Holder 2 for the Repeater M4, and 36 position tube rack for 1.5 mL and 2.0 mL tubes.

- ▶ **\$2,050** – Cat. No. 2231000716: Reference 2 volume ranges included: 0.1–2.5 μ L (dark grey), 0.5–10 μ L (medium grey), 10–100 μ L (yellow), and 100–1,000 μ L (blue)
- ▶ **\$2,050** – Cat. No. 2231000717: Reference 2 volume ranges included: 0.1–2.5 μ L (dark grey), 2–20 μ L (yellow), 20–200 μ L (yellow), and 100–1,000 μ L (blue)
- ▶ **\$2,050** – Cat. No. 2231000718: Reference 2 volume ranges included: 0.5–10 μ L (medium grey), 2–20 μ L (yellow), 20–200 μ L (yellow), and 100–1,000 μ L (blue)



DID YOU KNOW

The Reference 2 pipette and epT.I.P.S. pipette tips create a seamless system. When used together there is minimal attachment and ejection forces with the highest level of tightness. Check out our epT.I.P.S. options and complete your pipetting system!

www.eppendorf.com/eptips

Does Your Pipette Hurt Your Hand?

The ultra-light weight, air-cushioned Eppendorf Research® plus pipettes are some of the most advanced in the world. The low weight and operating force minimizes strain on your body and make lab work a breeze!



WHY YOU WILL LOVE IT

- ▶ Feel the difference in weight, pipetting forces and tip attachment
- ▶ Easily adjust to offset inaccuracies when pipetting various difficult liquids



SAVE TODAY



Save on 4 single-channel adjustable volume Research plus pipettes (options below), 1 full box of Eppendorf epT.I.P.S.® for each pipette, Repeater® M4, Easypet® 3, Pipette Carousel 2, a Pipette Holder 2 for the Repeater® M4, and a 36-position tube rack for 1.5 mL and 2.0 mL tubes.

- ▶ **\$1,965** – Cat. No. 2231000713: Research plus volume ranges included: 0.1–2.5 µL (dark grey), 0.5–10 µL (med. grey), 10–100 µL (yellow), and 100–1,000 µL (blue)
- ▶ **\$1,965** – Cat. No. 2231000714: Research plus volume ranges included: 0.1–2.5 µL (dark grey), 2–20 µL (yellow), 20–200 µL (yellow), and 100–1,000 µL (blue)
- ▶ **\$1,965** – Cat. No. 2231000715: Research plus volume ranges included: 0.5–10 µL (med. grey), 2–20 µL (yellow), 20–200 µL (yellow), and 100–1,000 µL (blue)



DID YOU KNOW

Researchers rated the Research plus among the top 0.1% of products used in the lab. See our SelectScience® 2018 Bronze Seal of Quality!

www.eppendorf.com/Researchplus

Pipetting Fatigue Slows You Down

Eppendorf Xplorer® single-channel electronic pipettes have an intuitive operating concept that includes one-touch, multiple dispensing pipetting so you can experience fatigue-free pipetting.



SAVE TODAY



Get the Xplorer single-channel adjustable volume pipette (options below) and a 36-position tube rack for 1.5 mL and 2.0 mL tubes.

- ▶ **\$610** – Cat. No. 2231000720: Xplorer pipette, single-channel, 0.5–10 µL, med. grey
- ▶ **\$610** – Cat. No. 2231000734: Xplorer pipette, single-channel, 1–20 µL, grey
- ▶ **\$610** – Cat. No. 2231000721: Xplorer pipette, single-channel, 5–100 µL, yellow
- ▶ **\$610** – Cat. No. 2231000735: Xplorer pipette, single-channel, 10–200 µL, yellow
- ▶ **\$610** – Cat. No. 2231000722: Xplorer pipette, single-channel, 15–300 µL, orange
- ▶ **\$610** – Cat. No. 2231000723: Xplorer pipette, single-channel, 50–1,000 µL, blue
- ▶ **\$610** – Cat. No. 2231000736: Xplorer pipette, single-channel, 0.1–2.5 mL, red
- ▶ **\$610** – Cat. No. 2231000724: Xplorer pipette, single-channel, 0.2–5 mL, violet
- ▶ **\$610** – Cat. No. 2231000725: Xplorer pipette, single-channel, 0.5–10 mL, turquoise

WHY YOU WILL LOVE IT

- ▶ Quickly aspirate and dispense liquid volumes ranging from 0.5 µL–10 mL
- ▶ Experience fatigue-free pipetting and maintain full control over pipetting procedures
- ▶ Precisely adjust parameters to receive reproducible and accurate results
- ▶ Enjoy an intuitive operating concept and ergonomic design, reducing the risk of RSI



DID YOU KNOW

The Xplorer electronic pipette was designed using the “3 Spheres Model” under the PhysioCare Concept®. The “3 Spheres Model” requires the development of each product to follow ergonomic guidelines, include harmonization to the workplace, and improve processes to better workflow.

www.eppendorf.com/3Spheres

Are You Struggling to Fill Your 384-well Plates?

The Eppendorf Xplorer® multichannel electronic pipette makes lab work easy with its precisely adjustable parameters 8- or 12-channel options helping you fill your 384-well plates.



WHY YOU WILL LOVE IT

- ▶ Aspirate and dispense liquid volumes ranging from 0.5 µL–10 mL
- ▶ Quickly and easily fill a 96- or 384-well microplate
- ▶ Work efficiently for up to 8 hours without needing to recharge the battery
- ▶ Fatigue-free pipetting with an intuitive operating concept and ergonomic design



DID YOU KNOW

The Xplorer plus electronic pipette can significantly improve the reproducibility of the Ion Torrent® Next Generation Sequencing (NGS) workflow. Read more about how the programmable and reproducible speed settings of the Xplorer plus in combination with the ep Dualfilter T.I.P.S. LoRetention help to facilitate the process.

Get the Xplorer plus today!

Learn more at: www.eppendorf.com/IonTorrent



SAVE TODAY



Get the Xplorer multichannel (8- or 12-channel) adjustable volume pipette (options below) and a PCR cooler.

- ▶ **\$995** – Cat. No. 2231000726: Xplorer pipette, 8-channel, 0.5–10 µL, med. grey
- ▶ **\$995** – Cat. No. 2231000728: Xplorer pipette, 8-channel, 5–100 µL, yellow
- ▶ **\$995** – Cat. No. 2231000730: Xplorer pipette, 8-channel, 15–300 µL, orange
- ▶ **\$995** – Cat. No. 2231000732: Xplorer pipette, 8-channel, 50–1,200 µL, green
- ▶ **\$1,220** – Cat. No. 2231000727: Xplorer pipette, 12-channel, 0.5–10 µL, med. grey
- ▶ **\$1,220** – Cat. No. 2231000729: Xplorer pipette, 12-channel, 5–100 µL, yellow
- ▶ **\$1,220** – Cat. No. 2231000731: Xplorer pipette, 12-channel, 15–300 µL, orange
- ▶ **\$1,220** – Cat. No. 2231000733: Xplorer pipette, 12-channel, 50–1,200 µL, green

Are You Struggling to Prep a High-Quality DNA Library?

Next Generation Sequencing workflows can use thermal cyclers in steps such as fragmentation, tagmentation, ligation, and hybridization, in addition to PCR. For protocol steps utilizing a thermocycler, challenges include sample loss during overnight hybridization or PCR runs, incompatibility with different consumables, and inconsistent heating and cooling leading to low-quality library.



WHAT TO LOOK FOR IN A THERMOCYCLER FOR OPTIMAL RESULTS IN YOUR NGS WORKFLOW

- ▶ Consistent block temperature for reproducible results across samples in a 96-well plate or tube strip
- ▶ High quality cycler lidding to limit sample loss for PCR steps or longer incubations
- ▶ Flexibility to handle different sample vessels to adapt to your research needs
- ▶ Connectivity for added usability when sharing a unit with a team or using one for different applications



THERMOCYCLER STEPS

In a NGS exome library prep, a thermocycler can be used in the following steps:

1. Fragmentation
2. End Repair and Adenylation
3. Ligation
4. Hybridization
5. Amplification



DID YOU KNOW

NGS sequencing based methods for marker gene studies, metagenomics, and metatranscriptomics survey microbial communities with a different focus and detail. Standardization of the NGS workflows from sample collection and storage over sample preparation to insights of the sequencing data is important in order to compare and combine separate studies in consortium based approaches at a global scale.

www.eppendorf.com/MicrobiomeSamplePrep



Still Waiting for Your PCR Run to Finish?

Get optimized, reproducible PCR results **FASTER** with the Mastercycler® X50 family of thermocyclers with a ramp rate of 10 °C/s.

WHY YOU WILL LOVE IT

- ▶ Increase throughput with one of the industry's fastest temperature ramp rates
- ▶ Optimize your PCR reaction annealing and denaturing steps in a single run with the 2D gradient
- ▶ Control multiple units connected to a network to increase efficiency
- ▶ Need even more throughput and flexibility? Optional connectivity of up to 50 units with CycleManager X50 software



SAVE TODAY



Save up to 32% on select Eppendorf X50 Mastercyclers.

- ▶ **\$6,399** – Cat. No. 2231000668: Mastercycler X50a, aluminum block, 120 V and PCR cooler
- ▶ **\$12,399** – Cat. No. 2231000678: Mastercycler X50a (aluminum block master) and X50I (eco version) bundle, 120 V



DID YOU KNOW

Comparing the speed of different thermal cyclers, the isolated consideration of heating and cooling ramp rates cited in the technical specifications often does not reflect the actual run times. An estimate of actual run times based on these technical ramp rates may lead to false conclusions. Mastercycler X50s achieves the shortest total PCR run time against most cyclers.

Learn more at: www.eppendorf.com/ComparePCR



Are You Worried Your Consumables Do Not Fit?

The Mastercycler® nexus gradient allows the flexibility of using multiple consumable formats for your samples.



WHY YOU WILL LOVE IT

- ▶ Enjoy the flexibility with a universal block for sample vessels from 0.2 mL tubes to 96-well plates
- ▶ Gradient range from 1–20 °C for PCR reaction optimization
- ▶ Energy efficient and inaudible so you can focus on your research
- ▶ Effortless height adjustment for all vessel types with flexlid®



SAVE TODAY



Save over 14% on the Eppendorf Mastercycler nexus gradient.

- ▶ \$6,995 – Cat. No. 2231000679: Mastercycler nexus gradient, aluminum block, 120 V



DID YOU KNOW

Commercial products related to PCR are offered in an overwhelming amount of variety. The right combination of materials, protocol and device settings is necessary to achieve robust results. Precisely because there are so many influencing factors, it is critical that a thermal cycler offers you a maximum of flexibility to adapt to the requirements of all your experiments.

Learn more at: www.eppendorf.com/ThermocyclerFlex

Word Jumble

Rearrange the scrambled letters to come up with words that spell out an important message.



Perpfoends integracble
yventes vief ayers fo
purgpoistn isncitests

/

Inefficient Sample Prep Wastes Valuable Time

The Eppendorf ThermoMixer® C combines 2D Mix-Control technology with excellent temperature control to ensure efficient and reproducible test results at the microliter scale, even for challenging samples.



WHY YOU WILL LOVE IT

- ▶ Feel the flexibility with simultaneous mixing and heating of all common tubes and plates
- ▶ Have confidence in high temperature uniformity throughout the block
- ▶ Enjoy reproducibility and keep reaction conditions and sample concentration stable with evaporation protection



SAVE TODAY



Save 18% on the purchase of the Eppendorf ThermoMixer C with 1.5 mL tubes Eppendorf SmartBlock™ and SmartExtender.

- ▶ **\$4,797** – Cat. No. 2231000680: ThermoMixer C bundle with SmartBlock for 24 x 1.5 mL tubes and SmartExtender for 12 x 1.5 mL tubes



DID YOU KNOW

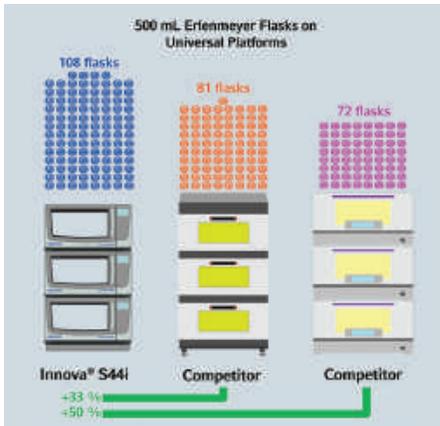
The Eppendorf SmartExtender offers a heating tool that is independent from the main block to increase the throughput and flexibility by adding extra 12 x 1.5 mL sample tubes.

www.eppendorf.com/SmartExtender



Running Out of Room on Your Shaker Platform?

The incubator shaker Innova® S44i allows users to shake up to 33% more flasks at higher speeds, even when triple stacked. Have it all with outstanding temperature uniformity and smooth shaking to increase reproducibility.



WHY YOU WILL LOVE IT

- ▶ Slide-up door provides convenient and effortless access into the shaker while reducing space requirements
- ▶ One-handed slide-out platform makes it simple to easily reach all samples
- ▶ Slide-out platform has a quick-release handle
- ▶ Large, easy-to-read touch screen display
- ▶ High temperature uniformity across the platform for reproducible results



SAVE TODAY



Save 15% on the purchase of an incubated or refrigerated Innova S44i shaker with universal platform included.

- ▶ **\$17,500** – Cat. No. 2231000659: Innova S44i incubated shaker, 1" orbit, with universal platform, 120 V
- ▶ **\$17,500** – Cat. No. 2231000660: Innova S44i incubated shaker, 2" orbit, with universal platform, 120 V
- ▶ **\$19,650** – Cat. No. 2231000661: Innova S44i refrigerated shaker, 1" orbit, with universal platform, 120 V
- ▶ **\$19,650** – Cat. No. 2231000662: Innova S44i refrigerated shaker, 2" orbit, with universal platform, 120 V



DID YOU KNOW

The S44i shaker is equipped with the Eppendorf X-Drive with intelligent and adjustable counterbalance to provide smooth and uniform vibration-free agitation and high temperature uniformity throughout the platform. More capacity, more reproducible results.

Learn more at: www.eppendorf.com/S44i

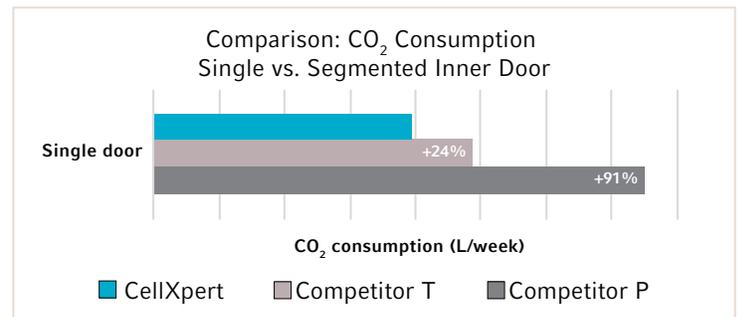


Are Your CO₂ Incubator Running Costs Too High?

The CellXpert® CO₂ incubator, with no internal expendable parts like fan-associated HEPA filters or UV lamps, significantly reduces CO₂ and N₂ consumption and provides up to 25% more usable space.

WHY YOU WILL LOVE IT

- ▶ Get up to 25% more usable space for more cell culture vessels
- ▶ Save up to \$9,000 over five years with significantly reduced CO₂ and N₂ consumption



SAVE TODAY



Save 9% on the purchase of two CellXpert C170i CO₂ incubators with a complete Stacking Kit and keep saving money over time.

- ▶ **\$18,170** – Cat. No. 2231000663: CellXpert C170i, includes 2 x C170i, left handle and stacking kit, 120 V
- ▶ **\$18,170** – Cat. No. 2231000664: CellXpert C170i, includes 2 x C170i, right handle and stacking kit, 120 V



DID YOU KNOW

Total costs of ownership regarding CO₂ incubators can be separated into four main factors: (1) Vessel capacity; (2) Expendable internal parts; (3) Future flexibility; and (4) Gas consumption.

See how the CellXpert helps you save money.
Learn more at: www.eppendorf.com/CellXpertSavings

Having Problems Controlling the Parameters of Your Cell Culture?

After successfully identifying a target during a pilot experiment, you recognize the need to replicate the target in higher volumes with the same linear growth in yield, but it's not that simple. Increasing your yield is really about the specifics: controlling agitation, pH, dissolved O₂, food source, temperature, and maybe most importantly the space needed to house additional equipment. Additional challenges include growing the investment in facilities and infrastructure and addressing the lack of reproducibility for the yield of your product when trying to grow in higher volumes. These challenges require expanding your understanding of cell culture technologies beyond classical shakers and incubators.



REPRODUCIBILITY

Reproducibility is key whether you are repeating experiments for publication or producing compounds in an industrial lab. Bioreactors boost reproducibility by solving these issues:

- ▶ One size does not fit all: variety in vessels for optimal applications
- ▶ Dynamic control: software to dynamically adjust biological process conditions
- ▶ Seeing the big picture: all parameters are detected for monitoring and future runs

NEXT-GENERATION BIOPROCESSOR FOR YIELDS CONSISTENT WITH SCALING

Investing in a cell culture control system that supports your needs now and for the future, is indispensable. Look for bioreactors that provide:

- ▶ Efficient experiment set-up with step-by-step guidance to save on time and reagent cost
- ▶ Automated identification and configuration of sensors and accessories to help increase productivity
- ▶ Workflow guidance and consistency checks to reduce risk to your cell culture run



DID YOU KNOW

Are you looking for specific information on how bioprocess works for your application?

We have a library of helpful content on bioprocess applications in vaccine and antibody development, chemicals, stem cell cultivation and many other fields. We include tips and tricks for beginners and experts and appropriate products for all workflows.

Learn more at: www.eppendorf.com/Bioprocess



RECAP OF PROMOTIONS

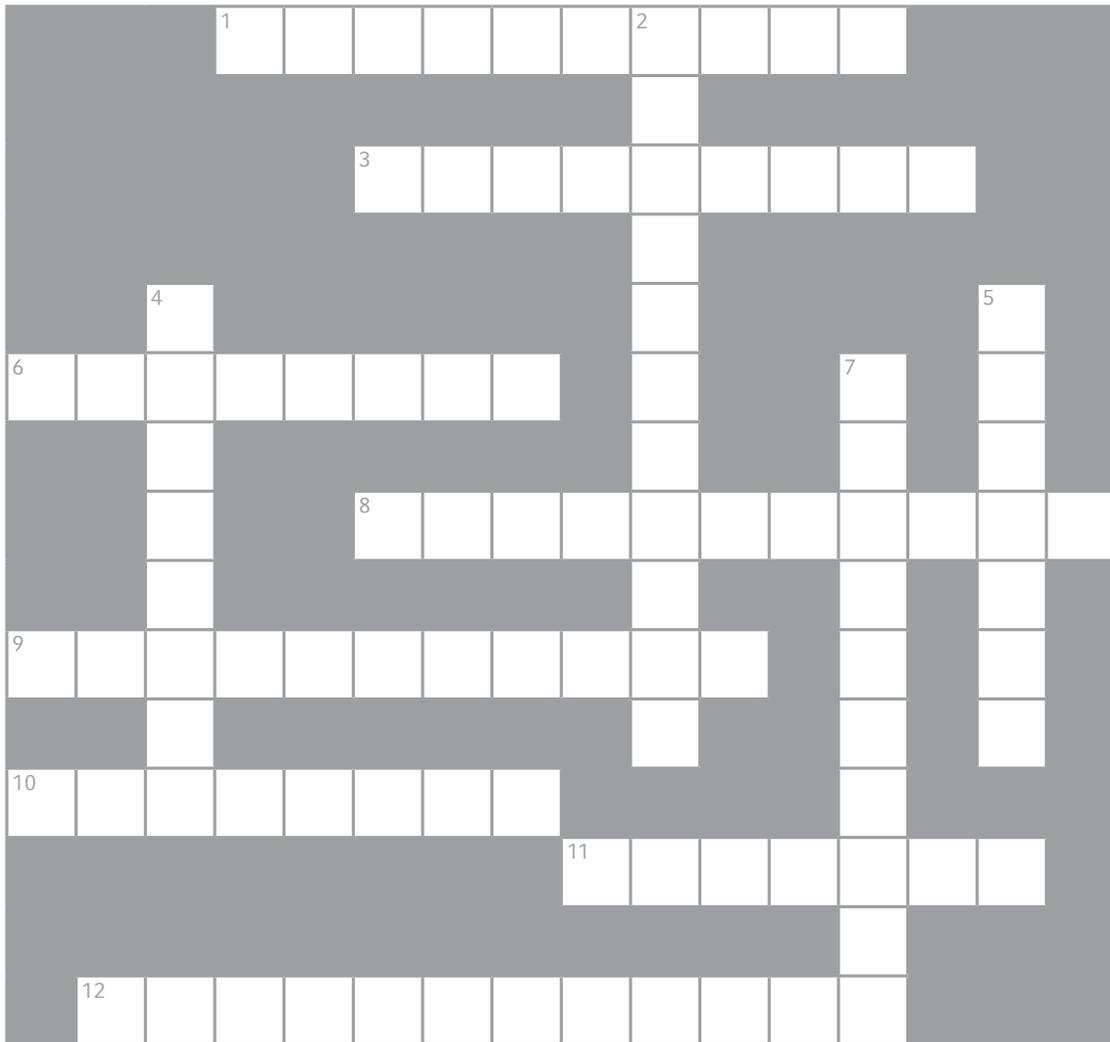
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How Do YOU Order Eppendorf Products?



Crossword Puzzle



ACROSS

- 1 Technology for your lab's ergonomic needs.
- 3 The best company ever.
- 6 Sequence of processes through which work passes from beginning to end.
- 8 To adjust precisely for a particular function.

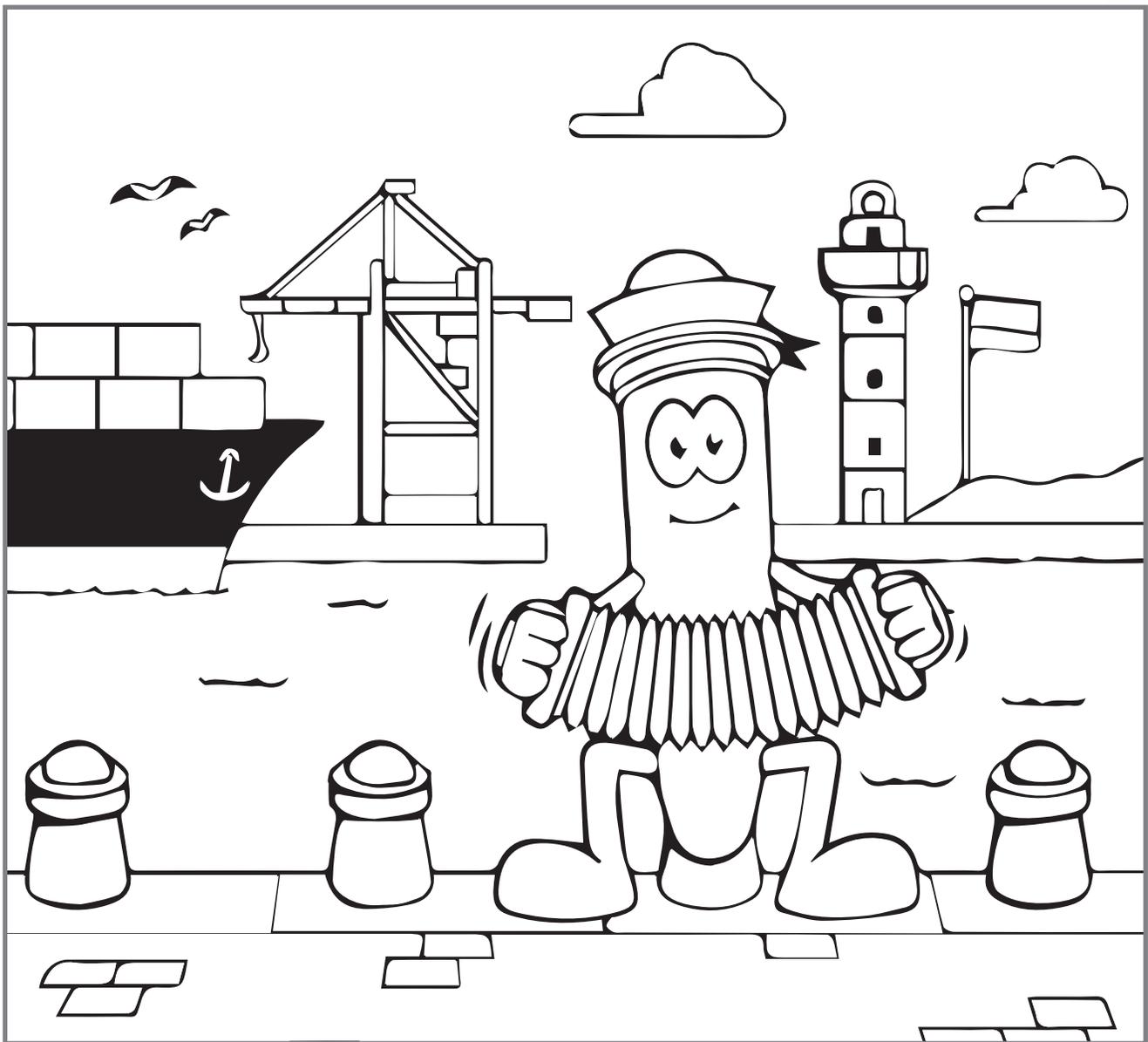
- 9 The solution for mixing and heating at once.
- 10 Acts of investigation and study.
- 11 The degree of excellence of something. Eppendorf is known for this.
- 12 Making the most effective use of a resource.

DOWN

- 2 Laboratory plastic _____ from Eppendorf are manufactured to the highest quality standard.
- 4 Eppendorf offers different lines of -80°C ULT _____ to meet a variety of needs.
- 5 Electronic pipettes that will reduce repetitive stress injuries.
- 7 The use of automatic equipment in a process.

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