eppendorf

384. Ready. Set. Pipette!

384-well pipetting made easy
NEW: 16 or 24-channel pipettes and epT.I.P.S.® 384

16 and 24 Wells in Just One Step

Pipette into 384-well plates without the pain
Do you work with 384-well plates and strive for more efficient manual pipetting methods? Your worries are over.

Eppendorf's new 16 or 24-channel pipettes and epT.I.P.S.® 384 make working with 384-well plates convenient, ergonomic and safe.

Fill 384 wells within a minute
> No more mistakes or tedious work due to inconvenient alternate well pipetting with 8 or 12-channel pipettes
> Set up or validate an automated process manually, and have a back-up system in case automation fails
> Increase your throughput today and change from 96 to 384-well plates. There´s no reason to hesitate anymore!

SOFTeject tip ejection
> Successive tip ejection without perceptible delay
> Tip ejection forces reduced by 50%

Get the 16 or 24-channel pipettes in our gold standard Research plus or in our efficient electronic Xplorer plus models.

Channel indicator
> First and last channels are labeled
> Use the pipette in the same orientation – all the time

Rounded tip cones
> Glide easily into all 16 or 24 tips

Spring-loaded tip cone*¹
> Minimizes tip attachment forces
> No rocking or banging needed
> Haptic feedback indicates perfect and reliable tip fit

*¹ available for all Eppendorf pipettes up to 1 mL
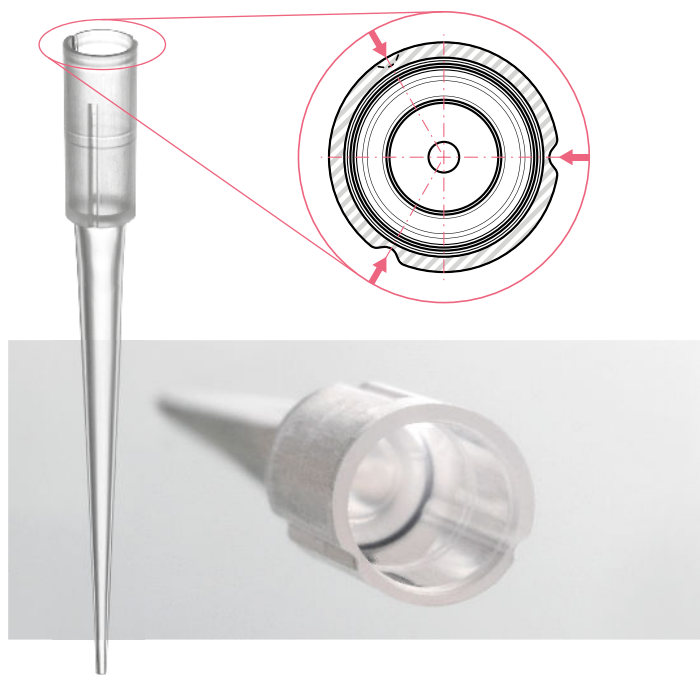
epT.I.P.S. 384 with SOFTattach technology
> For smooth and even tip attachement, and ejection, reducing operating forces
> New dimension of tip fit and tightness
> Perfect tip alignment by extraordinary coaxiality
> Extremely fine tip shape to perfectly hit all 384 wells

Ergonomics – Practiced Innovation

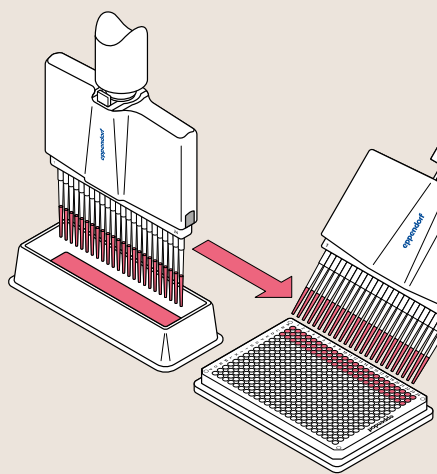**epT.I.P.S. 384 with SOFTattach technology – the key innovation**
For the first time, pipette tips have elastic forming grooves. They allow the tips to stretch as much as necessary to enable a perfect seal while operating forces are reduced to a minimum.
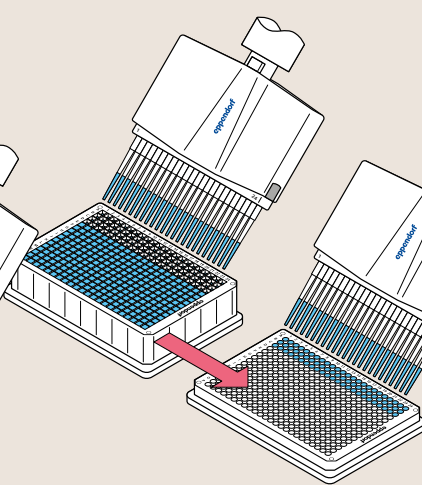
Your benefit:
> Outstanding and reliable tip fit and tightness
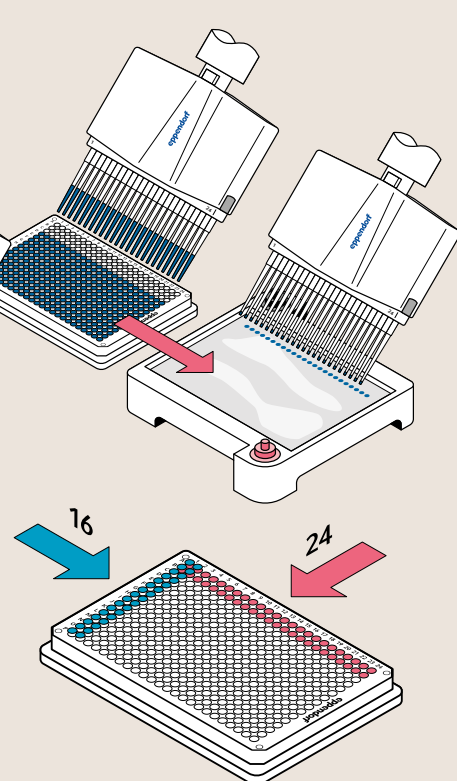> Reduced tip attachment and ejection forces

Applications for 384 Well Plates

1 **From reagent reservoir to 384-well plate**
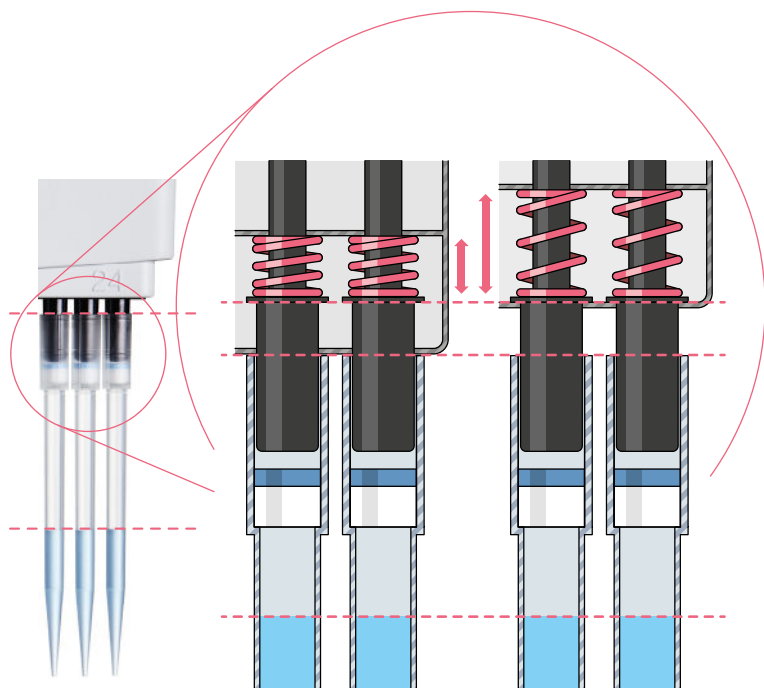
2 **From 384 to 384-well plate**

3 **From 384-well plate to agarose gel**
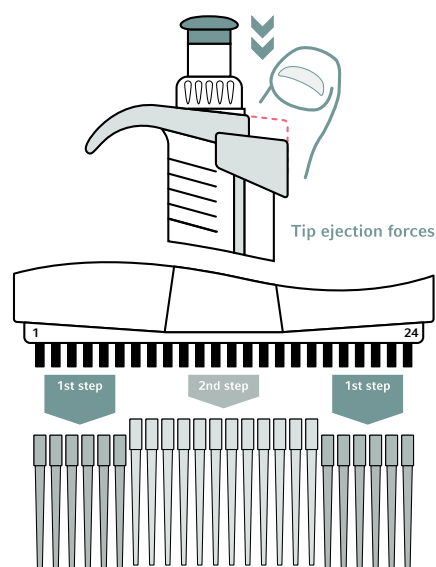
> Biochemical assays
> Cell based assays
> Immunoassays
> Storage of biological
   samples or chemical compounds

> Nucleic acid based methods
  • Amplification
  • Loading of agarose gels
  • Purification
  • Quantification
  • Sequencing

16

24

Tip ejection forces

1   24

1st step   2nd step   1st step

Spring-loaded tip cone for ergonomic and safe work
> Reduced tip attachment force
> Haptic feedback indicates reproducible and safe tip fit
> Uniform uptake of liquid

SOFTeject for reduced tip ejection force
During a single tip ejection stroke, the outside tips eject before the inside tips. This reduces the tip ejection forces by 50%.

Workflow

Complete Solutions from Eppendorf
As a solution provider, we offer 384 well formats with our microplates, thermocyclers, thermomixers, centrifuges and services to complete your 384 well workflow demands. More information about our workflow solutions on: **www.eppendorf.com**

Eppendorf 384-well plates

Eppendorf ThermoMixer® FP

Mastercycler® X50h

Eppendorf Centrifugation

Ergonomics – Then and Now

Always focusing on scientists' needs
To sustainably support the health of our customers, Eppendorf introduced the PhysioCare Concept®. Our philosophy is to continuously listen to scientists' needs while challenging the status quo of existing tools. Eppendorf has surpassed themselves once again with the new system for 384-well plates by combining proven concepts with new innovations:

The already proven features, the **spring-loaded tip cone and SOFTeject**, were combined with a further innovation – epT.I.P.S. 384 with **SOFTattach** technology. All these features combined ensure greater user safety and ergonomics at work:

> Tip attachment – even and reliable
> Tip ejection – smooth and easy
> Per tip cone, attachment and ejection forces are significantly reduced
> Perfectly aligned tips ensure safe plate maneuvering and liquid transfer

PhysioCare concept

www.eppendorf.com/physiocare

Superior ergonomics

Ergonomic operation and energy saving. Reduced ejection forces and 40% lower tip attachment forces per cone:

> **New epT.I.P.S. 384 with SOFTattach technology:** outstandingly smooth and even tip attachment

> **Spring-loaded tip cone:** with haptic feedback there is no need for rocking and banging, one gentle touch, and done

> **SOFTeject:** 50% reduction of ejection forces by successive tip ejection

Reproducible results

High level reproducibility and user safety:

> **Start 16 or 24 reactions simultaneously:** for equal starting conditions

> **SOFTattach technology and optimal pipette-tip compatibility:** for reliable tip tightness

> **Perfectly aligned epT.I.P.S. 384:** for safe plate maneuvering and liquid transfer

Time-saving

Alternate well pipetting with 8 or 12-channel pipettes is a thing of the past:

> **In just one step:** process complete columns or rows with 16 or 24-channel pipettes

> **Protects from accidental well misidentification and repeating of experiments**

> **Improve efficiency with 384-well plates:** 50% reduction in pipetting steps by processing one 384 instead of four 96 well plates

Eppendorf Research® plus
(multichannel, variable volume)

No. of channels	Volume	Color code	Order no.
16 channel	1–20 µL	☐ pearl white	3122 000.078
	5–100 µL	▨ light yellow	3122 000.094
24 channel	1–20 µL	☐ pearl white	3122 000.086
	5–100 µL	▨ light yellow	3122 000.108

Eppendorf Xplorer® plus
(multichannel, variable volume, incl. charger)

No. of channels	Volume	Color code	Order no.
16 channel	1–20 µL	☐ pearl white	4861 000.778
	5–100 µL	▨ light yellow	4861 000.792
24 channel	1–20 µL	☐ pearl white	4861 000.779
	5–100 µL	▨ light yellow	4861 000.793

epT.I.P.S.® / ep Dualfilter T.I.P.S.® 384

Tips 384	Available as	Tip size	Color code	epT.I.P.S.® 384 Order no.	ep Dualfilter T.I.P.S.® 384 Order no.
Set (Eppendorf Quality™)	epT.I.P.S.® 384, 1,920 tips (5 trays x 384 tips), 1 reusable box	20 µL	☐ pearl white	0030 076.028	–
		100 µL	▨ light yellow	0030 076.036	–
Reload (PCR clean)	epT.I.P.S.® 384, 3,840 tips (10 trays x 384 tips)	20 µL	☐ pearl white	0030 076.001	–
		100 µL	▨ light yellow	0030 076.010	–
Reload (Eppendorf Quality™)	epT.I.P.S.® 384, 3,840 tips (10 trays x 384 tips)	20 µL	☐ pearl white	0030 076.044	–
		100 µL	▨ light yellow	0030 076.052	–
Rack (PCR clean, sterile)	ep Dualfilter T.I.P.S.® 384, 3,840 tips (10 racks x 384 tips)	20 µL	☐ pearl white	–	0030 078.403
		100 µL	▨ light yellow	–	0030 078.411

384-well plates	Order no.
Eppendorf twin.tec® PCR plate 384	0030 128.508
Eppendorf Deepwell Plate 384	0030 521.102
Eppendorf Microplate 384/V	0030 621.301

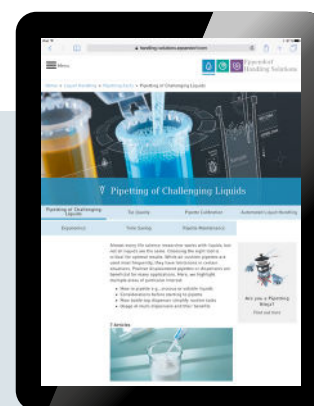> For more information go to: www.eppendorf.com/plates

Eppendorf Handling Solutions

How to prevent muscle strain during work
Everyday work in a laboratory puts high demands on our bodies. Visit our
Liquid Handling website »Pipetting facts / Ergonomics« for helpful tips and trick.

> Learn more about pipetting and have fun as well:
  www.eppendorf.com/pipetting