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!

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

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

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

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

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

epT.I.P.S. 384 with SOFTattach technology
> For smooth and even tip attachment, 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

*1 available for all Eppendorf pipettes up to 1 mL.

Pipette into 384-well plates without the pain

Eppendorf 16/24-channel pipettes and epT.I.P.S.® 384
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
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, theromixers, centrifuges and services to complete your 384 well workflow demands. More information about our workflow solutions on: www.eppendorf.com

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

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)

<table>
<thead>
<tr>
<th>No. of channels</th>
<th>Volume</th>
<th>Color code</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 channel</td>
<td>1–20 µL</td>
<td>pearl white</td>
<td>3122 000.078</td>
</tr>
<tr>
<td></td>
<td>5–100 µL</td>
<td>light yellow</td>
<td>3122 000.094</td>
</tr>
<tr>
<td>24 channel</td>
<td>1–20 µL</td>
<td>pearl white</td>
<td>3122 000.086</td>
</tr>
<tr>
<td></td>
<td>5–100 µL</td>
<td>light yellow</td>
<td>3122 000.108</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>No. of channels</th>
<th>Volume</th>
<th>Color code</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 channel</td>
<td>1–20 µL</td>
<td>pearl white</td>
<td>4861 000.778</td>
</tr>
<tr>
<td></td>
<td>5–100 µL</td>
<td>light yellow</td>
<td>4861 000.792</td>
</tr>
<tr>
<td>24 channel</td>
<td>1–20 µL</td>
<td>pearl white</td>
<td>4861 000.779</td>
</tr>
<tr>
<td></td>
<td>5–100 µL</td>
<td>light yellow</td>
<td>4861 000.793</td>
</tr>
</tbody>
</table>

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

#### Tips 384

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Set (Eppendorf Quality™) epT.I.P.S.® 384, 1,920 tips (5 trays x 384 tips), 1 reusable box</td>
<td>20 µL</td>
<td>pearl white</td>
<td>0030 076.028</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>100 µL</td>
<td>light yellow</td>
<td>0030 076.036</td>
<td>–</td>
</tr>
<tr>
<td>Reload (PCR clean)  epT.I.P.S.® 384, 3,840 tips (10 trays x 384 tips)</td>
<td>20 µL</td>
<td>pearl white</td>
<td>0030 076.001</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>100 µL</td>
<td>light yellow</td>
<td>0030 076.010</td>
<td>–</td>
</tr>
<tr>
<td>Reload (Eppendorf Quality™) epT.I.P.S.® 384, 3,840 tips (10 trays x 384 tips)</td>
<td>20 µL</td>
<td>pearl white</td>
<td>0030 076.044</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>100 µL</td>
<td>light yellow</td>
<td>0030 076.052</td>
<td>–</td>
</tr>
<tr>
<td>Rack (PCR clean, sterile) ep Dualfilter T.I.P.S.® 384, 3,840 tips (10 racks x 384 tips)</td>
<td>20 µL</td>
<td>pearl white</td>
<td>–</td>
<td>0030 078.403</td>
</tr>
<tr>
<td></td>
<td>100 µL</td>
<td>light yellow</td>
<td>–</td>
<td>0030 078.411</td>
</tr>
</tbody>
</table>

#### 384-well plates

- **Eppendorf twin.tec® PCR plate 384**
- **Eppendorf Deepwell Plate 384**
- **Eppendorf Microplate 384/V**

Order no.:

<table>
<thead>
<tr>
<th>Eppendorf twin.tec® PCR plate 384</th>
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<tbody>
<tr>
<td>Eppendorf Deepwell Plate 384</td>
<td>0030 521.102</td>
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<tr>
<td>Eppendorf Microplate 384/V</td>
<td>0030 621.301</td>
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> For more information go to: www.eppendorf.com/plates

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**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

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Your local distributor: www.eppendorf.com/contact

Eppendorf AG · Barkhausenweg 1 · 22339 Hamburg · Germany

eppendorf@eppendorf.com · www.eppendorf.com

www.eppendorf.com

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Carbon neutrally printed in Germany.