



Pipette 제품가이드

- > Research plus
- > Reference2
- > Xplorer / Xplorer plus
- > epT.I.P.S.

Product Overview



| Model | Research plus | Reference 2 | Xplorer Xplorer plus |
|---|---|---|--|
| Pipette type | Air-cushion | Air-cushion | Air-cushion |
| Operating mode | Manual (two-button operation system) | Manual (one-button operation system) | Electronic |
| Application | 용액의 흡입/분주 | 용액의 흡입/분주 | >용액의 흡입/분주 >다양한 작동 모드 (예:Mixing, Strandard curve, 동량 분주 등) |
| Available option | 1-channel 8-channel 12-channel | 1-channel 8-channel 12-channel | 1-channel 8-channel 12-channel |
| Autoclavable | 가능 | 가능 | 하단부 가능 |
| Available tip | > epT.I.P.S > epT.I.P.S Long > epT.I.P.S RoLetention > epDualfilter T.I.P.S > epDualfilter T.I.P.S SealMax > epDualfilter T.I.P.S LoRetention | | |
| Eppendorf epT.I.P.S. format | <div> epT.I.P.S Standard Box/epT.I.P.S Set epT.I.P.S Racks epT.I.P.S Singles epT.I.P.S Reloads </div> | | |
| Eppendorf epT.I.P.S. Purity grade | > Eppendorf Quality > PCR clean and sterile > Eppendorf Biopur > Forensic DNA grade | | |

Research plus single channel



Low operating force

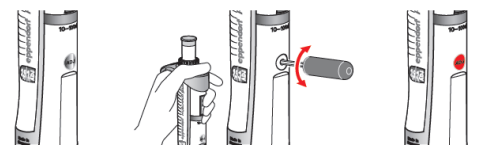
- > 가볍고 내구성이 높은 재질 적용
- > 피펫팅 시 많은 힘이 필요하지 않음

Full-autoclavable

- > 피펫 전체 오토클레이브 가능
- > 조건 : 121°C, 1bar, 15~20min

Self-adjustment

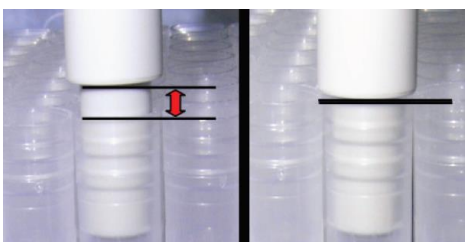
- | | |
|-------------------------------------|----------------------|
| DMSO 99.8 % | NaOH 40 % |
| H ₂ SO ₄ 98 % | Cesium chloride 45 % |
| H ₃ PO ₄ 85 % | PCR master mix |
| PEG 400 40 % | Ethanol 99.8 % |
| Glycerol 50 % | |



- > 높은 밀도, 휘발성 용액 등 용액 특성에 따라 사용자가 직접 calibration 가능

- > 분주의 정확도 및 재현성 향상

Spring loaded tip cone



- > 가볍게 피펫을 눌러 tip 로딩하기 때문에 힘이 적게 들고, 피펫 수명이 연장됨

- > 일정한 위치에 팁이 로딩되어 정확/재현성 증대

Easy maintenance

- > lower-part 분리가 간단하여, 피펫 내부에 샘플 흡입시 쉽게 세척

Research plus multi-channel

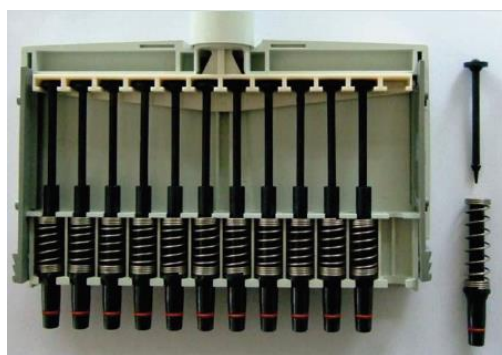


채널 변경 가능



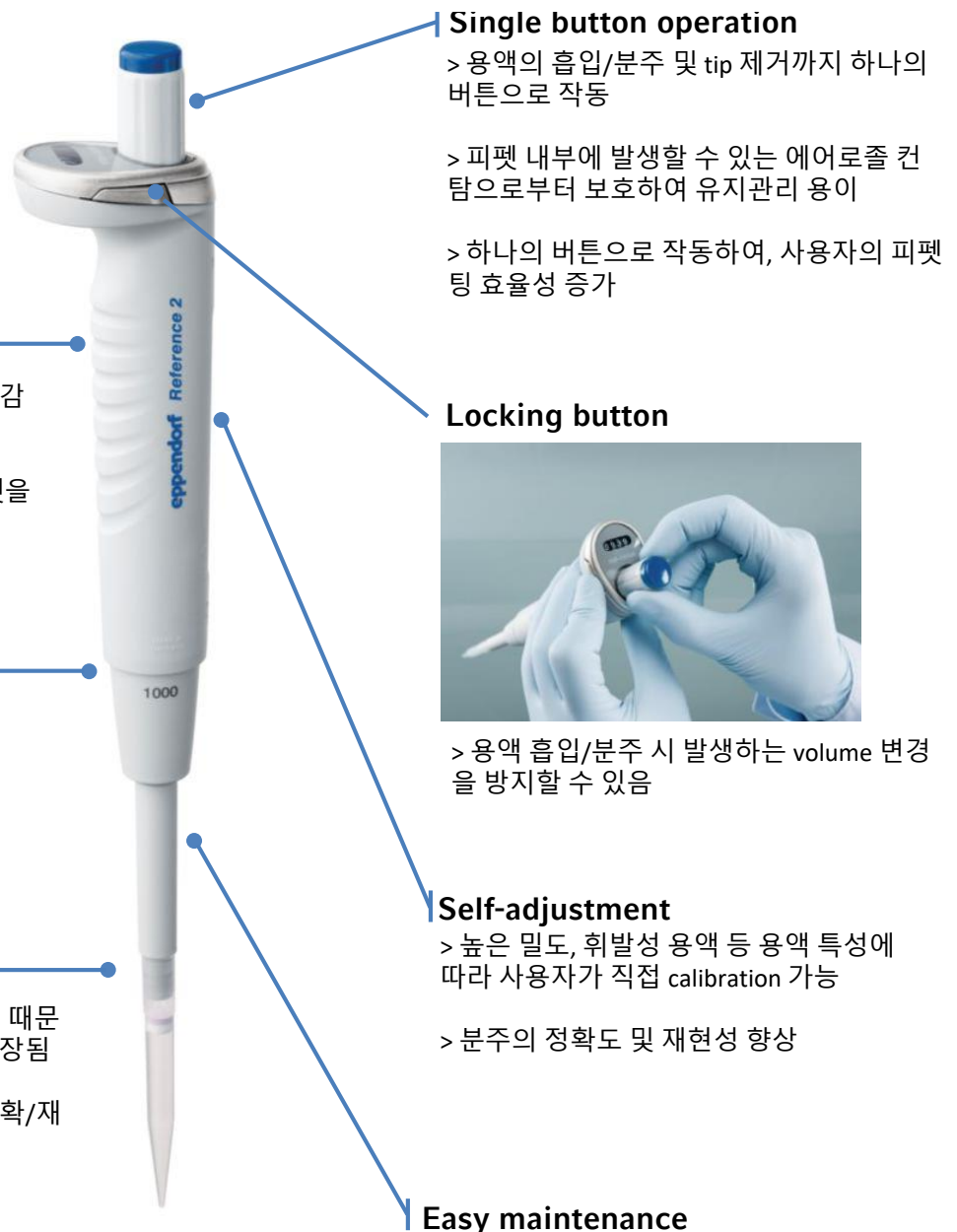
> 사용하는 용기 간격에 따라 채널 조정 가능 (e.g., cell culture plate 사용시)

독립적인 피스톤



> 각 채널의 피스톤이 독립적으로 운용되어 채널별로 흡입 볼륨이 상이한 문제 해결 (epT.I.P.S. 사용 시)

Reference2



Unique surface

- > 타원형 몸체로, 사용자에게 안정감 있는 그립감 제공
- > 홈이나 패인곳이 많지 않아, 피펫을 닦아내기 매우 편리

Full-autoclavable

- > 피펫 전체 오토클레이브 가능
- > 조건 : 121°C, 1bar, 15~20min

Spring loaded tip cone

- > 가볍게 피펫을 눌러 tip 로딩하기 때문에 힘이 적게 들고, 피펫 수명이 연장됨
- > 일정한 위치에 팁이 로딩되어 정확/재현성 증대

Single button operation

- > 용액의 흡입/분주 및 tip 제거까지 하나의 버튼으로 작동
- > 피펫 내부에 발생할 수 있는 에어로졸 컨탐으로부터 보호하여 유지관리 용이
- > 하나의 버튼으로 작동하여, 사용자의 피펫팅 효율성 증가

Locking button



- > 용액 흡입/분주 시 발생하는 volume 변경을 방지할 수 있음

Self-adjustment

- > 높은 밀도, 휘발성 용액 등 용액 특성에 따라 사용자가 직접 calibration 가능
- > 분주의 정확도 및 재현성 향상

Easy maintenance

- > lower-part 분리가 간단하여, 피펫 내부에 샘플이 흡입되었을 때 쉽게 세척할 수 있음



Multi-channel pipette

- > 사용하는 용기 간격에 따라 채널 조정 가능 (e.g., cell culture plate 사용시)
- > 각 채널의 피스톤이 독립적으로 운용되어 채널별로 흡입 볼륨이 상이한 문제 해결
- > 8-channel, 12-channel

Xplorer / Xplorer plus

Large display

> 설정값을 display에서 한눈에 확인/설정 가능

Selection dial

> 다이알을 돌려 쉽게 작동 모드 설정

> 다양한 작동 모드 제공, 사용자의 실험 효율성 증대

Motorized piston

> 피스톤이 모터로 작동되어, human-error 배제

> 피펫팅의 정확도 및 재현성 향상

Spring loaded tip cone

> 가볍게 피펫을 눌러 tip 로딩하기 때문에 힘이 적게 들고, 피펫 수명이 연장됨

> 일정한 위치에 팁이 로딩되어 정확/재현성 증대

Autoclavable lower-part

> lower-part를 분리하여 오토클레이브 가능

> 쉽게 분리할 수 있어, 시료에 의해 오염되었을 경우, 하단부의 세척 용이



Multi-channel pipette

> 사용하는 용기 간격에 따라 채널 조정 가능 (e.g., cell culture plate 사용시)

> 각 채널의 피스톤이 독립적으로 운용되어 채널별로 흡입 볼륨이 상이한 문제 해결

> 8-channel, 12-channel

Xplorer / Xplorer plus : operation mode

Xplorer

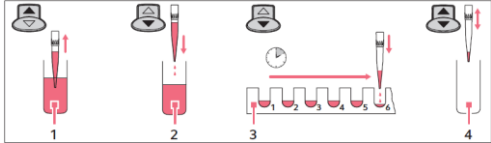

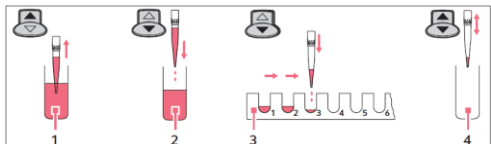
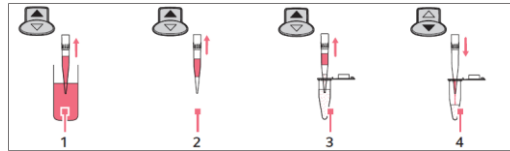
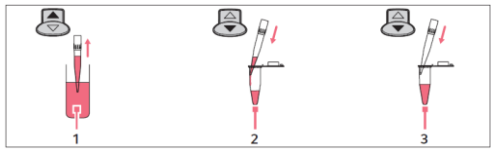
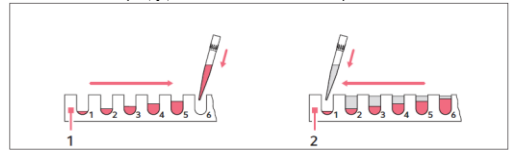
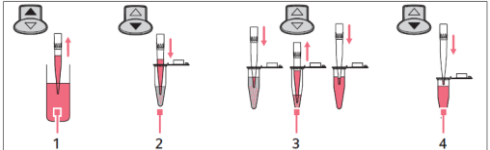
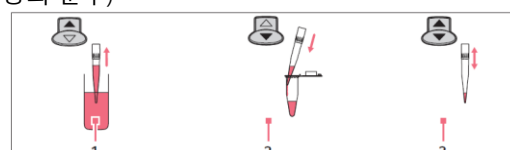
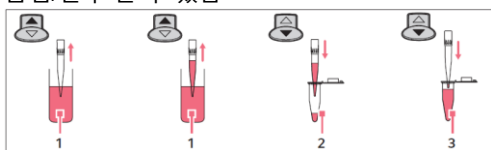


Xplorer plus



Xplorer plus



| Xplorer/Xplorer plus 공통 | Xplorer plus 추가 기능 |
|--|---|
| <p>Ads (Automatic dispensing mode) : 분주할 용액을 한번에 흡입하여 설정한 시간 간격으로 동량 분주. Rocker 아래 방향 버튼을 누르고 있으면 설정한 시간 간격으로 동량 분주</p>  | <p>Spc/Multi-Aspirate: 동량의 용액을 흡입한 후 한번에 분주(e.g., 동량의 상층액 회수 후 한번에 버릴 때)</p>  |
| <p>Dis (Dispensing mode) : 분주할 용액을 한번에 흡입하여 동량 분주 *Ads와 차이점 : 분주시 마다 rocker 아래 방향 버튼을 눌러줘야함</p>  | <p>Spc/Diluting : 샘플 희석시 사용</p>  |
| <p>Pip (Pipetting mode) : 설정한 볼륨을 흡입하고 분주할 때</p>  | <p>Spc/Seq.Dispensing : 정해진 sample 개수 만큼 서로 다른 volume을 분주할 때 (e.g., standard curve)</p>  |
| <p>P/M (Pipetting and Mixing mode): Mixing 할 때 사용. 흡입/분주 용량과 mixing용량을 개별적으로 설정할 수 있음</p>  | <p>Spc/Rev.Pipetting : 문제성 시료 분주 시 사용하는 모드 (e.g., 휘발성 용액, 점성용액 등의 분주)</p>  |
| <p>Man (Manual pipetting mode): Rocker 버튼을 누르는 만큼 대 상 용액을 흡입/분주 할 수 있음</p>  | <p>Prg (Program) : 저장된 프로그램 확인</p> |
| | <p>Edit : 새로운 프로그램을 만들고자 할 때</p> <p>Fix : 자주 쓰는 고정 볼륨 프로그램을 불러오고자 할 때</p> |




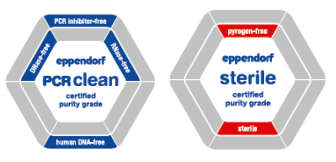
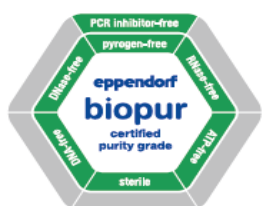
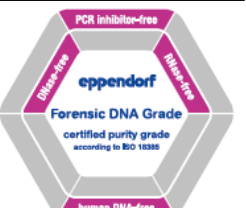
epT.I.P.S

Product Overview

| Model | | Features |
|------------|----------------------------------|--|
| Non-filter | epT.I.P.S (기본형) | <ul style="list-style-type: none"> > Eppendorf 피펫과 사용시 높은 정확도 및 정밀도 보장 > 타사 피펫과 호환 가능 |
| | epT.I.P.S Long | <ul style="list-style-type: none"> > 기본형에 비해 긴 길이. Deep well plate와 같이 높이가 긴 용기 사용시 적합 > Available volume : 0.5-20μl, 50-1,250μl, 0.2-5ml, 0.5-10ml |
| | epT.I.P.S LoRetention | <ul style="list-style-type: none"> > Detergent가 포함된 용액 분주 시 정확한 용량 분주 가능, 재현성 증가 > 분자단계에서 변형하여 극 소수성 내부 표면 생성. 반복 사용시 기능 유지 > 화학적 내성이 우수, 오토클레브 가능 |
| Filter | epT.I.P.S Dualfilter | <ul style="list-style-type: none"> > 2중 필터로, 에어로졸 컨탐 뿐만 아닌 biomolecule(e.g., DNA, RNA, protein)까지 완벽 차단 > PCR 실험 시, inhibitor 차단 및 cross-contamination 방지 |
| | epT.I.P.S Dualfilter SealMax | <ul style="list-style-type: none"> > 2중 필터로, 에어로졸 컨탐 뿐만 아닌 biomolecule(e.g., DNA, RNA, protein)까지 완벽 차단 > PCR 실험 시, inhibitor 차단 및 cross-contamination 방지 > Liquid protection이 향상된 필터 장착 |
| | epT.I.P.S Dualfilter LoRetention | <ul style="list-style-type: none"> > epDualfilter T.I.P.S.에 LoRetention 기능이 추가 된 제품 > Detergent 용액을 사용하며, cross-contamination 우려가 있는 실험시 사용 적합 (e.g., PCR, qPCR) |











epT.I.P.S

Eppendorf epT.I.P.S purity grade

| Model | Features |
|-----------------------|--|
| Eppendorf Quality | <ul style="list-style-type: none"> > 일반적인 purity level  |
| Sterile | <ul style="list-style-type: none"> > 멸균, pyrogen-free 조건 충족 > Lot-specific control (인증서 제공) > Microbiology 또는 cell culture 실험에 적용  |
| PCR Clean | <ul style="list-style-type: none"> > Human DNA-free, DNase-free, RNase-free, PCR inhibitor-free 조건 충족 > Lot-specific control (인증서 제공) > 핵산 분석 및 추출 실험에 적합  |
| PCR clean and Sterile | <ul style="list-style-type: none"> > 멸균, pyrogen-free, Human DNA-free, DNase-free, RNase-free, PCR inhibitor-free 조건 충족 > Lot-specific control (인증서 제공)  |
| Biopur | <ul style="list-style-type: none"> > Human DNA-free, Bacterial DNA-free, DNase-free, RNase-free, PCR inhibitor-free, ATP-free, Pyrogen-free, Sterile 조건 충족 > 가장 높은 purity level을 요구하는 실험에 적합. > 소량 포장 또는 개별 포장 > Lot-specific control (인증서 제공)  |
| Forensic DNA grade | <ul style="list-style-type: none"> > Human DNA-free, DNase-free, RNase-free, PCR inhibitor-free 조건 충족 > 소량 포장 (single) 또는 개별 포장 > Lot-specific control (인증서 제공) > epDualfilter T.I.P.S. 만 제공  |







Ordering information Research® plus

Variable(가변형), single channel

| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|------------|----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Research® plus , single-channel, variable, incl. epT.I.P.S.® Box | | | | | | | |
| 0.1 – 2.5 µL  | | 0.1 µL | ±48.0 % | ±0.048 µL | ±12.0 % | ±0.012 µL | 3120 000.011 |
| | | 0.25 µL | ±12.0 % | ±0.03 µL | ±6.0 % | ±0.015 µL | |
| | | 1.25 µL | ±2.5 % | ±0.031 µL | ±1.5 % | ±0.019 µL | |
| | | 2.5 µL | ±1.4 % | ±0.035 µL | ±0.7 % | ±0.018 µL | |
| 0.5 – 10 µL  | | 0.5 µL | ±8.0 % | ±0.04 µL | ±5.0 % | ±0.025 µL | 3120 000.020 |
| | | 1 µL | ±2.5 % | ±0.025 µL | ±1.8 % | ±0.018 µL | |
| | | 5 µL | ±1.5 % | ±0.075 µL | ±0.8 % | ±0.04 µL | |
| | | 10 µL | ±1.0 % | ±0.1 µL | ±0.4 % | ±0.04 µL | |
| 2 – 20 µL  | | 2 µL | ±5.0 % | ±0.1 µL | ±1.5 % | ±0.03 µL | 3120 000.097 |
| | | 10 µL | ±1.2 % | ±0.12 µL | ±0.6 % | ±0.06 µL | |
| | | 20 µL | ±1.0 % | ±0.2 µL | ±0.3 % | ±0.06 µL | |
| 2 – 20 µL  | | 2 µL | ±5.0 % | ±0.1 µL | ±1.5 % | ±0.03 µL | 3120 000.038 |
| | | 10 µL | ±1.2 % | ±0.12 µL | ±0.6 % | ±0.06 µL | |
| | | 20 µL | ±1.0 % | ±0.2 µL | ±0.3 % | ±0.06 µL | |
| 10 – 100 µL  | | 10 µL | ±3.0 % | ±0.3 µL | ±1.0 % | ±0.1 µL | 3120 000.046 |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.3 % | ±0.15 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.2 % | ±0.2 µL | |
| 20 – 200 µL  | | 20 µL | ±2.5 % | ±0.5 µL | ±0.7 % | ±0.14 µL | 3120 000.054 |
| | | 100 µL | ±1.0 % | ±1.0 µL | ±0.3 % | ±0.3 µL | |
| | | 200 µL | ±0.6 % | ±1.2 µL | ±0.2 % | ±0.4 µL | |
| 30 – 300 µL  | | 30 µL | ±2.5 % | ±0.75 µL | ±0.7 % | ±0.21 µL | 3120 000.100 |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.3 % | ±0.45 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.2 % | ±0.6 µL | |
| 100 – 1,000 µL  | | 100 µL | ±3.0 % | ±3.0 µL | ±0.6 % | ±0.6 µL | 3120 000.062 |
| | | 500 µL | ±1.0 % | ±5.0 µL | ±0.2 % | ±1.0 µL | |
| | | 1,000 µL | ±0.6 % | ±6.0 µL | ±0.2 % | ±2.0 µL | |
| 0.5 – 5 mL  | | 0.5 mL | ±2.4 % | ±0.012 mL | ±0.6 % | ±0.003 mL | 3120 000.070 |
| | | 2.5 mL | ±1.2 % | ±0.03 mL | ±0.25 % | ±0.006 mL | |
| | | 5 mL | ±0.6 % | ±0.03 mL | ±0.15 % | ±0.008 mL | |
| 1 – 10 mL  | | 1 mL | ±3.0 % | ±0.03 mL | ±0.6 % | ±0.006 mL | 3120 000.089 |
| | | 5 mL | ±0.8 % | ±0.04 mL | ±0.2 % | ±0.01 mL | |
| | | 10 mL | ±0.6 % | ±0.06 mL | ±0.15 % | ±0.015 mL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.













Variable(가변형), Multi-channel

| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|------------|--------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Research® plus, 8-channel, variable | | | | | | | |
| 0.5 – 10 µL  | | 0.5 µL | ±12.0 % | ±0.06 µL | ±8.0 % | ±0.04 µL | 3122 000.019 |
| | | 1 µL | ±8.0 % | ±0.08 µL | ±5.0 % | ±0.05 µL | |
| | | 5 µL | ±4.0 % | ±0.2 µL | ±2.0 % | ±0.1 µL | |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±1.0 % | ±0.1 µL | |
| 10 – 100 µL  | | 10 µL | ±3.0 % | ±0.3 µL | ±2.0 % | ±0.2 µL | 3122 000.035 |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.3 % | ±0.3 µL | |
| 30 – 300 µL  | | 30 µL | ±3.0 % | ±0.9 µL | ±1.0 % | ±0.3 µL | 3122 000.051 |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.3 % | ±0.9 µL | |
| Eppendorf Research® plus, 12-channel, variable | | | | | | | |
| 0.5 – 10 µL  | | 0.5 µL | ±12.0 % | ±0.06 µL | ±8.0 % | ±0.04 µL | 3122 000.027 |
| | | 1 µL | ±8.0 % | ±0.08 µL | ±5.0 % | ±0.05 µL | |
| | | 5 µL | ±4.0 % | ±0.2 µL | ±2.0 % | ±0.1 µL | |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±1.0 % | ±0.1 µL | |
| 10 – 100 µL  | | 10 µL | ±3.0 % | ±0.3 µL | ±2.0 % | ±0.2 µL | 3122 000.043 |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.3 % | ±0.3 µL | |
| 30 – 300 µL  | | 30 µL | ±3.0 % | ±0.9 µL | ±1.0 % | ±0.3 µL | 3122 000.060 |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.3 % | ±0.9 µL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Ordering information Research® plus

Fixed(고정형), single channel

| Volume range | Color code | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|--|---|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Research® plus, single-channel, fixed | | | | | | |
| 10 µL |  medium gray | ±1.2 % | ±0.12 µL | ±0.6 % | ±0.06 µL | 3121 000.015 |
| 10 µL |  yellow | ±1.2 % | ±0.12 µL | ±0.6 % | ±0.06 µL | 3121 000.023 |
| 20 µL |  light gray | ±0.8 % | ±0.16 µL | ±0.3 % | ±0.06 µL | 3121 000.031 |
| 20 µL |  yellow | ±1.0 % | ±0.2 µL | ±0.3 % | ±0.06 µL | 3121 000.040 |
| 25 µL |  yellow | ±1.0 % | ±0.25 µL | ±0.3 % | ±0.08 µL | 3121 000.058 |
| 50 µL |  yellow | ±0.7 % | ±0.35 µL | ±0.3 % | ±0.15 µL | 3121 000.066 |
| 100 µL |  yellow | ±0.6 % | ±0.6 µL | ±0.2 % | ±0.2 µL | 3121 000.074 |
| 200 µL |  yellow | ±0.6 % | ±1.2 µL | ±0.2 % | ±0.4 µL | 3121 000.082 |
| 200 µL |  blue | ±0.6 % | ±1.2 µL | ±0.2 % | ±0.4 µL | 3121 000.090 |
| 250 µL |  blue | ±0.6 % | ±1.5 µL | ±0.2 % | ±0.5 µL | 3121 000.104 |
| 500 µL |  blue | ±0.6 % | ±3.0 µL | ±0.2 % | ±1.0 µL | 3121 000.112 |
| 1,000 µL |  blue | ±0.6 % | ±6.0 µL | ±0.2 % | ±2.0 µL | 3121 000.120 |












¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Variable(가변형), Option pack

| Description | Order no. |
|--|--------------|
| Eppendorf Research® plus 3-pack (IVD) , single-channel, variable, incl. epT.I.P.S.® Box or sample bag and ballpoint pen | |
| Option 1: 0.5 – 10 µL, 10 – 100 µL, 100 – 1,000 µL | 3120 000.909 |
| Option 2: 2 – 20 µL yellow, 20 – 200 µL, 100 – 1,000 µL | 3120 000.917 |
| Option 3: 100 – 1,000 µL, 0.5 – 5 mL, 1 – 10 mL | 3120 000.925 |







Ordering information Reference®2

Variable(가변형), single channel

| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|------------|----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Reference® 2, single-channel, variable, incl. epT.I.P.S.® Box | | | | | | | |
| 0.1 – 2.5 µL  | | 0.1 µL | ±48.0 % | ±0.048 µL | ±12.0 % | ±0.012 µL | 4920 000.016 |
| | | 0.25 µL | ±12.0 % | ±0.03 µL | ±6.0 % | ±0.015 µL | |
| | | 1.25 µL | ±2.5 % | ±0.031 µL | ±1.5 % | ±0.019 µL | |
| | | 2.5 µL | ±1.4 % | ±0.035 µL | ±0.7 % | ±0.018 µL | |
| 0.5 – 10 µL  | | 0.5 µL | ±8.0 % | ±0.04 µL | ±5.0 % | ±0.025 µL | 4920 000.024 |
| | | 1.0 µL | ±2.5 % | ±0.025 µL | ±1.8 % | ±0.018 µL | |
| | | 5.0 µL | ±1.5 % | ±0.075 µL | ±0.8 % | ±0.04 µL | |
| | | 10 µL | ±1.0 % | ±0.10 µL | ±0.4 % | ±0.04 µL | |
| 2 – 20 µL  | | 2.0 µL | ±3.0 % | ±0.06 µL | ±1.5 % | ±0.03 µL | 4920 000.032 |
| | | 10 µL | ±1.0 % | ±0.10 µL | ±0.6 % | ±0.06 µL | |
| | | 20 µL | ±0.8 % | ±0.16 µL | ±0.3 % | ±0.06 µL | |
| 2 – 20 µL  | | 2.0 µL | ±5.0 % | ±0.10 µL | ±1.5 % | ±0.03 µL | 4920 000.040 |
| | | 10 µL | ±1.2 % | ±0.12 µL | ±0.6 % | ±0.06 µL | |
| | | 20 µL | ±1.0 % | ±0.2 µL | ±0.3 % | ±0.06 µL | |
| 10 – 100 µL  | | 10 µL | ±3.0 % | ±0.3 µL | ±0.7 % | ±0.07 µL | 4920 000.059 |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.3 % | ±0.15 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.2 % | ±0.2 µL | |
| 20 – 200 µL  | | 20 µL | ±2.5 % | ±0.5 µL | ±0.7 % | ±0.14 µL | 4920 000.067 |
| | | 100 µL | ±1.0 % | ±1.0 µL | ±0.3 % | ±0.3 µL | |
| | | 200 µL | ±0.6 % | ±1.2 µL | ±0.2 % | ±0.4 µL | |
| 30 – 300 µL  | | 30 µL | ±2.5 % | ±0.75 µL | ±0.7 % | ±0.21 µL | 4920 000.075 |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.3 % | ±0.45 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.2 % | ±0.6 µL | |
| 100 – 1,000 µL  | | 100 µL | ±3.0 % | ±3.0 µL | ±0.6 % | ±0.6 µL | 4920 000.083 |
| | | 500 µL | ±1.0 % | ±5.0 µL | ±0.2 % | ±1.0 µL | |
| | | 1,000 µL | ±0.6 % | ±6.0 µL | ±0.2 % | ±2.0 µL | |
| 0.25 – 2.5 mL  | | 0.25 mL | ±4.8 % | ±0.012 mL | ±1.2 % | ±0.003 mL | 4920 000.091 |
| | | 1.25 mL | ±0.8 % | ±0.010 mL | ±0.2 % | ±0.0025 mL | |
| | | 2.5 mL | ±0.6 % | ±0.015 mL | ±0.2 % | ±0.005 mL | |
| 0.5 – 5 mL  | | 0.5 mL | ±2.4 % | ±0.012 mL | ±0.6 % | ±0.003 mL | 4920 000.105 |
| | | 2.5 mL | ±1.2 % | ±0.030 mL | ±0.25 % | ±0.006 mL | |
| | | 5.0 mL | ±0.6 % | ±0.030 mL | ±0.15 % | ±0.0075 mL | |
| 1 – 10 mL  | | 1.0 mL | ±3.0 % | ±0.030 mL | ±0.6 % | ±0.006 mL | 4920 000.113 |
| | | 5.0 mL | ±0.8 % | ±0.040 mL | ±0.2 % | ±0.010 mL | |
| | | 10.0 mL | ±0.6 % | ±0.060 mL | ±0.15 % | ±0.015 mL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.


















Variable(가변형), Multi-channel

| Volume range | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|--------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Reference® 2, 8-channel, variable, incl. epT.I.P.S.® Box | | | | | | |
| 0.5 – 10 µL  | 0.5 µL | ±12.0 % | ±0.06 µL | ±8.0 % | ±0.04 µL | 4922 000.013 |
| | 1.0 µL | ±8.0 % | ±0.08 µL | ±5.0 % | ±0.05 µL | |
| | 5.0 µL | ±4.0 % | ±0.2 µL | ±2.0 % | ±0.1 µL | |
| | 10 µL | ±2.0 % | ±0.2 µL | ±1.0 % | ±0.1 µL | |
| 10 – 100 µL  | 10 µL | ±3.0 % | ±0.3 µL | ±2.0 % | ±0.2 µL | 4922 000.030 |
| | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | 100 µL | ±0.8 % | ±0.8 µL | ±0.3 % | ±0.3 µL | |
| 30 – 300 µL  | 30 µL | ±3.0 % | ±0.9 µL | ±1.0 % | ±0.3 µL | 4922 000.056 |
| | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | 300 µL | ±0.6 % | ±1.8 µL | ±0.3 % | ±0.9 µL | |
| Eppendorf Reference® 2, 12-channel, variable, incl. epT.I.P.S.® Box | | | | | | |
| 0.5 – 10 µL  | 0.5 µL | ±12.0 % | ±0.06 µL | ±8.0 % | ±0.04 µL | 4922 000.021 |
| | 1.0 µL | ±8.0 % | ±0.08 µL | ±5.0 % | ±0.05 µL | |
| | 5.0 µL | ±4.0 % | ±0.2 µL | ±2.0 % | ±0.1 µL | |
| | 10 µL | ±2.0 % | ±0.2 µL | ±1.0 % | ±0.1 µL | |
| 10 – 100 µL  | 10 µL | ±3.0 % | ±0.3 µL | ±2.0 % | ±0.2 µL | 4922 000.048 |
| | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | 100 µL | ±0.8 % | ±0.8 µL | ±0.3 % | ±0.3 µL | |
| 30 – 300 µL  | 30 µL | ±3.0 % | ±0.9 µL | ±1.0 % | ±0.3 µL | 4922 000.064 |
| | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | 300 µL | ±0.6 % | ±1.8 µL | ±0.3 % | ±0.9 µL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Ordering information Reference[®]2

Fixed(고정형), single channel

| Volume range | Color code | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|---|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Reference [®] 2, single-channel, fixed | | | | | | |
| 1 µL |  dark gray | ±2.5 % | ±0.025 µL | ±1.8 % | ±0.018 µL | 4921 000.010 |
| 2 µL |  dark gray | ±2.0 % | ±0.04 µL | ±1.2 % | ±0.024 µL | 4921 000.028 |
| 5 µL |  medium gray | ±1.2 % | ±0.06 µL | ±0.6 % | ±0.03 µL | 4921 000.036 |
| 10 µL |  medium gray | ±1.0 % | ±0.1 µL | ±0.5 % | ±0.05 µL | 4921 000.044 |
| 10 µL |  yellow | ±1.2 % | ±0.12 µL | ±0.5 % | ±0.05 µL | 4921 000.052 |
| 20 µL |  light gray | ±0.8 % | ±0.16 µL | ±0.3 % | ±0.06 µL | 4921 000.060 |
| 20 µL |  yellow | ±1.0 % | ±0.2 µL | ±0.3 % | ±0.06 µL | 4921 000.079 |
| 25 µL |  yellow | ±1.0 % | ±0.25 µL | ±0.3 % | ±0.075 µL | 4921 000.087 |
| 50 µL |  yellow | ±0.7 % | ±0.35 µL | ±0.3 % | ±0.15 µL | 4921 000.095 |
| 100 µL |  yellow | ±0.6 % | ±0.6 µL | ±0.2 % | ±0.2 µL | 4921 000.109 |
| 200 µL |  yellow | ±0.6 % | ±1.2 µL | ±0.2 % | ±0.4 µL | 4921 000.117 |
| 200 µL |  blue | ±0.6 % | ±1.2 µL | ±0.2 % | ±0.4 µL | 4921 000.125 |
| 250 µL |  blue | ±0.6 % | ±1.5 µL | ±0.2 % | ±0.5 µL | 4921 000.133 |
| 500 µL |  blue | ±0.6 % | ±3.0 µL | ±0.2 % | ±1.0 µL | 4921 000.141 |
| 1,000 µL |  blue | ±0.6 % | ±6.0 µL | ±0.2 % | ±2.0 µL | 4921 000.150 |
| 2 mL |  red | ±0.6 % | ±0.012 mL | ±0.2 % | ±0.004 mL | 4921 000.168 |
| 2.5 mL |  red | ±0.6 % | ±0.015 mL | ±0.2 % | ±0.005 mL | 4921 000.176 |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Variable(가변형), Option pack

| Description | Order no. |
|---|--------------|
| Eppendorf Reference [®] 2, 3-pack, single-channel, variable, incl. epT.I.P.S. [®] Box or sample bag and ballpoint pen | |
| Option 1: 0.5 – 10 µL, 10 – 100 µL, 100 – 1,000 µL | 4920 000.903 |
| Option 2: 2 – 20 µL yellow, 20 – 200 µL, 100 – 1,000 µL | 4920 000.911 |
| Option 3: 100 – 1,000 µL, 0.5 – 5 mL, 1 – 10 mL | 4920 000.920 |









Ordering information Xplorer®

Variable(가변형), single channel

| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|--|-------------|-----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Xplorer®, single-channel, variable | | | | | | | |
| 0.5 – 10 µL | medium gray | 0.5 µL | ±6.0 % | ±0.03 µL | ±3.0 % | ±0.015 µL | 4861 000.015 |
| | | 1 µL | ±2.5 % | ±0.025 µL | ±1.8 % | ±0.018 µL | |
| | | 5 µL | ±1.5 % | ±0.075 µL | ±0.8 % | ±0.04 µL | |
| | | 10 µL | ±1.0 % | ±0.1 µL | ±0.4 % | ±0.04 µL | |
| 5 – 100 µL | yellow | 5 µL | ±4.0 % | ±0.2 µL | ±2.0 % | ±0.1 µL | 4861 000.023 |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±1.0 % | ±0.1 µL | |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.3 % | ±0.15 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.2 % | ±0.2 µL | |
| 15 – 300 µL | orange | 15 µL | ±5.0 % | ±0.75 µL | ±1.4 % | ±0.21 µL | 4861 000.031 |
| | | 30 µL | ±2.5 % | ±0.75 µL | ±0.7 % | ±0.21 µL | |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.3 % | ±0.45 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.2 % | ±0.6 µL | |
| 50 – 1,000 µL | blue | 50 µL | ±6.0 % | ±3 µL | ±1.0 % | ±0.5 µL | 4861 000.040 |
| | | 100 µL | ±3.0 % | ±3 µL | ±0.6 % | ±0.6 µL | |
| | | 500 µL | ±1.0 % | ±5 µL | ±0.2 % | ±1 µL | |
| | | 1,000 µL | ±0.6 % | ±6 µL | ±0.2 % | ±2 µL | |
| 0.2 – 5 mL | violet | 250 µL | ±4.8 % | ±12 µL | ±1.2 % | ±3 µL | 4861 000.058 |
| | | 500 µL | ±3.0 % | ±15 µL | ±0.6 % | ±3 µL | |
| | | 2,500 µL | ±1.2 % | ±30 µL | ±0.25 % | ±6.25 µL | |
| | | 5,000 µL | ±0.6 % | ±30 µL | ±0.15 % | ±7.5 µL | |
| 0.5 – 10 mL | turquoise | 500 µL | ±6.0 % | ±30 µL | ±1.2 % | ±6 µL | 4861 000.066 |
| | | 1,000 µL | ±3.0 % | ±30 µL | ±0.6 % | ±6 µL | |
| | | 5,000 µL | ±0.8 % | ±40 µL | ±0.2 % | ±10 µL | |
| | | 10,000 µL | ±0.6 % | ±60 µL | ±0.15 % | ±15 µL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.







Variable(가변형), Multi-channel

| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|--|---|----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Xplorer®, 8-channel, variable | | | | | | | |
| 0.5 – 10 µL |  medium gray | 0.5 µL | ±10.0 % | ±0.05 µL | ±6.0 % | ±0.03 µL | 4861 000.104 |
| | | 1 µL | ±5.0 % | ±0.05 µL | ±3.0 % | ±0.03 µL | |
| | | 5 µL | ±3.0 % | ±0.15 µL | ±1.5 % | ±0.075 µL | |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±0.8 % | ±0.08 µL | |
| 5 – 100 µL |  yellow | 5 µL | ±6.0 % | ±0.3 µL | ±4.0 % | ±0.2 µL | 4861 000.120 |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±2.0 % | ±0.2 µL | |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.25 % | ±0.25 µL | |
| 15 – 300 µL |  orange | 15 µL | ±6.0 % | ±0.9 µL | ±2.0 % | ±0.3 µL | 4861 000.147 |
| | | 30 µL | ±2.5 % | ±0.75 µL | ±1.0 % | ±0.3 µL | |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.25 % | ±0.75 µL | |
| 50 – 1,200 µL |  green | 50 µL | ±8.0 % | ±4.0 µL | ±1.2 % | ±0.6 µL | 4861 000.163 |
| | | 120 µL | ±6.0 % | ±7.2 µL | ±0.9 % | ±1.08 µL | |
| | | 600 µL | ±2.7 % | ±16.2 µL | ±0.4 % | ±2.4 µL | |
| | | 1,200 µL | ±1.2 % | ±14.4 µL | ±0.3 % | ±3.6 µL | |
| Eppendorf Xplorer®, 12-channel, variable | | | | | | | |
| 0.5 – 10 µL |  medium gray | 0.5 µL | ±10.0 % | ±0.05 µL | ±6.0 % | ±0.03 µL | 4861 000.112 |
| | | 1 µL | ±5.0 % | ±0.05 µL | ±3.0 % | ±0.03 µL | |
| | | 5 µL | ±3.0 % | ±0.15 µL | ±1.5 % | ±0.075 µL | |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±0.8 % | ±0.08 µL | |
| 5 – 100 µL |  yellow | 5 µL | ±6.0 % | ±0.3 µL | ±4.0 % | ±0.2 µL | 4861 000.139 |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±2.0 % | ±0.2 µL | |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.25 % | ±0.25 µL | |
| 15 – 300 µL |  orange | 15 µL | ±6.0 % | ±0.9 µL | ±2.0 % | ±0.3 µL | 4861 000.155 |
| | | 30 µL | ±2.5 % | ±0.75 µL | ±1.0 % | ±0.3 µL | |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.25 % | ±0.75 µL | |
| 50 – 1,200 µL |  green | 50 µL | ±8.0 % | ±4.0 µL | ±1.2 % | ±0.6 µL | 4861 000.171 |
| | | 120 µL | ±6.0 % | ±7.2 µL | ±0.9 % | ±1.08 µL | |
| | | 600 µL | ±2.7 % | ±16.2 µL | ±0.4 % | ±2.4 µL | |
| | | 1,200 µL | ±1.2 % | ±14.2 µL | ±0.3 % | ±3.6 µL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.









Ordering information Xplorer®plus

Variable(가변형), single channel

| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|---|-----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Xplorer® plus, single-channel, variable | | | | | | | |
| 0.5 – 10 µL |  medium gray | 0.5 µL | ±6.0 % | ±0.03 µL | ±3.0 % | ±0.015 µL | 4861 000.708 |
| | | 1 µL | ±2.5 % | ±0.025 µL | ±1.8 % | ±0.018 µL | |
| | | 5 µL | ±1.5 % | ±0.075 µL | ±0.8 % | ±0.04 µL | |
| | | 10 µL | ±1.0 % | ±0.1 µL | ±0.4 % | ±0.04 µL | |
| 5 – 100 µL |  yellow | 5 µL | ±4.0 % | ±0.2 µL | ±2.0 % | ±0.1 µL | 4861 000.716 |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±1.0 % | ±0.1 µL | |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.3 % | ±0.15 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.2 % | ±0.2 µL | |
| 15 – 300 µL |  orange | 15 µL | ±5.0 % | ±0.75 µL | ±1.4 % | ±0.21 µL | 4861 000.724 |
| | | 30 µL | ±2.5 % | ±0.75 µL | ±0.7 % | ±0.21 µL | |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.3 % | ±0.45 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.2 % | ±0.6 µL | |
| 50 – 1,000 µL |  blue | 50 µL | ±6.0 % | ±3 µL | ±1.0 % | ±0.5 µL | 4861 000.732 |
| | | 100 µL | ±3.0 % | ±3 µL | ±0.6 % | ±0.6 µL | |
| | | 500 µL | ±1.0 % | ±5 µL | ±0.2 % | ±1 µL | |
| | | 1,000 µL | ±0.6 % | ±6 µL | ±0.2 % | ±2 µL | |
| 0.2 – 5 mL |  violet | 200 µL | ±4.8 % | ±12 µL | ±1.2 % | ±3 µL | 4861 000.740 |
| | | 500 µL | ±3.0 % | ±15 µL | ±0.6 % | ±3 µL | |
| | | 2,500 µL | ±1.2 % | ±30 µL | ±0.25 % | ±6.25 µL | |
| | | 5,000 µL | ±0.6 % | ±30 µL | ±0.15 % | ±7.5 µL | |
| 0.5 – 10 mL |  turquoise | 500 µL | ±6.0 % | ±30 µL | ±1.2 % | ±6 µL | 4861 000.759 |
| | | 1,000 µL | ±3.0 % | ±30 µL | ±0.6 % | ±6 µL | |
| | | 5,000 µL | ±0.8 % | ±40 µL | ±0.2 % | ±10 µL | |
| | | 10,000 µL | ±0.6 % | ±60 µL | ±0.15 % | ±15 µL | |















¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Variable(가변형), Multi-channel





| Volume range | Color code | Volume | Rel. systematic error ¹⁾ | Abs. systematic error ¹⁾ | Rel. random error ¹⁾ | Abs. random error ¹⁾ | Order no. |
|---|---|----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|--------------|
| Eppendorf Xplorer® plus, 8-channel, variable | | | | | | | |
| 0.5 – 10 µL |  medium gray | 0.5 µL | ±10.0 % | ±0.05 µL | ±6.0 % | ±0.03 µL | 4861 000.767 |
| | | 1 µL | ±5.0 % | ±0.05 µL | ±3.0 % | ±0.03 µL | |
| | | 5 µL | ±3.0 % | ±0.15 µL | ±1.5 % | ±0.075 µL | |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±0.8 % | ±0.08 µL | |
| 5 – 100 µL |  yellow | 5 µL | ±6.0 % | ±0.3 µL | ±4.0 % | ±0.2 µL | 4861 000.783 |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±2.0 % | ±0.2 µL | |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.25 % | ±0.25 µL | |
| 15 – 300 µL |  orange | 15 µL | ±6.0 % | ±0.9 µL | ±2.0 % | ±0.3 µL | 4861 000.805 |
| | | 30 µL | ±2.5 % | ±0.75 µL | ±1.0 % | ±0.3 µL | |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.25 % | ±0.75 µL | |
| 50 – 1,200 µL |  green | 50 µL | ±8.0 % | ±4.0 µL | ±1.2 % | ±0.6 µL | 4861 000.821 |
| | | 120 µL | ±6.0 % | ±7.2 µL | ±0.9 % | ±1.08 µL | |
| | | 600 µL | ±2.7 % | ±16.2 µL | ±0.4 % | ±2.4 µL | |
| | | 1,200 µL | ±1.2 % | ±14.4 µL | ±0.3 % | ±3.6 µL | |
| Eppendorf Xplorer® plus, 12-channel, variable | | | | | | | |
| 0.5 – 10 µL |  medium gray | 0.5 µL | ±10.0 % | ±0.05 µL | ±6.0 % | ±0.03 µL | 4861 000.775 |
| | | 1 µL | ±5.0 % | ±0.05 µL | ±3.0 % | ±0.03 µL | |
| | | 5 µL | ±3.0 % | ±0.15 µL | ±1.5 % | ±0.075 µL | |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±0.8 % | ±0.08 µL | |
| 5 – 100 µL |  yellow | 5 µL | ±6.0 % | ±0.3 µL | ±4.0 % | ±0.2 µL | 4861 000.791 |
| | | 10 µL | ±2.0 % | ±0.2 µL | ±2.0 % | ±0.2 µL | |
| | | 50 µL | ±1.0 % | ±0.5 µL | ±0.8 % | ±0.4 µL | |
| | | 100 µL | ±0.8 % | ±0.8 µL | ±0.25 % | ±0.25 µL | |
| 15 – 300 µL |  orange | 15 µL | ±6.0 % | ±0.9 µL | ±2.0 % | ±0.3 µL | 4861 000.813 |
| | | 30 µL | ±2.5 % | ±0.75 µL | ±1.0 % | ±0.3 µL | |
| | | 150 µL | ±1.0 % | ±1.5 µL | ±0.5 % | ±0.75 µL | |
| | | 300 µL | ±0.6 % | ±1.8 µL | ±0.25 % | ±0.75 µL | |
| 50 – 1,200 µL |  green | 50 µL | ±8.0 % | ±4.0 µL | ±1.2 % | ±0.6 µL | 4861 000.830 |
| | | 120 µL | ±6.0 % | ±7.2 µL | ±0.9 % | ±1.08 µL | |
| | | 600 µL | ±2.7 % | ±16.2 µL | ±0.4 % | ±2.4 µL | |
| | | 1,200 µL | ±1.2 % | ±14.2 µL | ±0.3 % | ±3.6 µL | |

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.







Ordering information epT.I.P.S

| Volume range/epT.I.P.S.® epT.I.P.S.® LoRetention (all tips shown are actual size) | Standard/Bulk | Reloads | Reloads |
|---|---|---|---|
|  dark gray | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 0.1 – 10 µL, 34 mm  | 0030 000.811 | 0030 073.363 0030 072.049 LoRetention | 0030 073.746 0030 072.006 LoRetention |
|  medium gray | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 0.1 – 20 µL, 40 mm  | 0030 000.838 | 0030 073.380 | 0030 073.762 |
|  light gray | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 0.5 – 20 µL, 46 mm  | 0030 000.854 | 0030 073.401 0030 072.057 LoRetention | 0030 073.789 0030 072.014 LoRetention |
|  yellow | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 2 – 200 µL, 53 mm  | 0030 000.889 0030 000.870 yellow tips | 0030 073.428 0030 072.065 LoRetention | 0030 073.800 0030 072.022 LoRetention |
|  orange | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 20 – 300 µL, 55 mm  | 0030 000.900 0030 000.897 yellow tips | 0030 073.444 | 0030 073.827 |
|  blue | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 50 – 1,000 µL, 71 mm  | 0030 000.927 0030 000.919 blue tips | 0030 073.460 0030 072.073 LoRetention | 0030 073.843 0030 072.030 LoRetention |
|  green | 1,000 tips (2 bags × 500 tips) | 960 tips (10 trays × 96 tips) | 960 tips (10 trays × 96 tips) |
| 50 – 1,250 µL, 76 mm  | 0030 000.935 | 0030 073.487 | 0030 073.860 |




Ordering information epT.I.P.S

| Box |  | Set |  | Singles |  | Racks |  |
|--------------------------|---|---|---|-------------------------------|--|------------------------------|---|
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | | | | |
| 0030 073.002 | | 0030 073.207 0030 072.251 LoRetention | | | | | |
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | 100 tips, individually packed | | 480 tips (5 racks x 96 tips) | |
| 0030 073.029 | | 0030 073.223 | | 0030 010.019 | | 0030 075.005 | |
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | | | | |
| 0030 073.045 | | 0030 073.240 0030 072.260 LoRetention | | | | | |
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | 100 tips, individually packed | | 480 tips (5 racks x 96 tips) | |
| 0030 073.061 | | 0030 073.266 0030 072.278 LoRetention | | 0030 010.035 | | 0030 075.021 | |
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | | | 480 tips (5 racks x 96 tips) | |
| 0030 073.088 | | 0030 073.282 | | | | 0030 075.048 | |
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | 100 tips, individually packed | | 480 tips (5 racks x 96 tips) | |
| 0030 073.100 | | 0030 073.304 0030 072.286 LoRetention | | 0030 010.051 | | 0030 075.064 | |
| 1 reusable box x 96 tips | | 480 tips (5 trays x 96 tips), 1 reusable box | | | | 480 tips (5 racks x 96 tips) | |
| 0030 073.126 | | 0030 073.320 | | | | 0030 075.080 | |

Ordering information epT.I.P.S

| Volume range/epT.I.P.S.® epT.I.P.S.® LoRetention (all tips shown are actual size) | Standard/Bulk | Reloads | Reloads |
|--|--|---|---|
| <div> <div></div> <div>dark green</div> </div> <div>50 – 1,250 µL L, 103 mm</div> <div>  </div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>1,000 tips (2 bags x 500 tips)</div> <div>0030 000.730</div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>960 tips (10 trays x 96 tips)</div> <div>0030 073.606</div> | <div> <div></div> <div>eppendorf PCR clean certified purity grade</div> </div> <div>960 tips (10 trays x 96 tips)</div> <div>0030 073.614</div> |
| <div> <div></div> <div>red</div> </div> <div>0.25 – 2.5 mL, 115 mm</div> <div>  </div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>500 tips (5 bags x 100 tips)</div> <div>0030 000.951</div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>480 tips (10 trays x 48 tips)</div> <div>0030 073.509</div> | <div> <div></div> <div>eppendorf PCR clean certified purity grade</div> </div> <div>480 tips (10 trays x 48 tips)</div> <div>0030 073.886</div> |
| <div> <div></div> <div>violet</div> </div> <div>0.1 – 5 mL, 120 mm</div> <div>  </div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>500 tips (5 bags x 100 tips)</div> <div>0030 000.978</div> | | |
| <div> <div></div> <div>violet</div> </div> <div>0.2 – 5 mL L, 175 mm</div> <div>  </div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>300 tips (3 bags x 100 tips)</div> <div>0030 000.650</div> | | |
| <div> <div></div> <div>turquoise</div> </div> <div>0.5 – 10 mL, 165 mm</div> <div>  </div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>200 tips (2 bags x 100 tips)</div> <div>0030 000.765</div> | | |
| <div> <div></div> <div>turquoise</div> </div> <div>0.5 – 10 mL L, 243 mm</div> <div>  </div> <div>(Image reduced size)</div> | <div> <div></div> <div>eppendorf guaranteed quality</div> </div> <div>200 tips (2 bags x 100 tips)</div> <div>0030 000.781</div> | | |

Ordering information epT.I.P.S

| Box | Set | Singles | Racks |
|---|---|--|---|
|  |  |  |  |
| 1 reusable box x 96 tips 0030 073.622 | | | 480 tips (5 racks x 96 tips) 0030 075.129 |
| 1 reusable box x 48 tips 0030 073.142 | 240 tips (5 trays x 48 tips), 1 reusable box 0030 073.347 | | 240 tips (5 racks x 48 tips) 0030 075.102 |
| 1 reusable box x 24 tips 0030 073.169 | | | 120 tips (5 racks x 24 tips) 0030 075.137 |
| | | | 120 tips (5 racks x 24 tips) 0030 075.188 |
| | | | 120 tips (5 racks x 24 tips) 0030 075.145 |
| | | | |
| | | | |

Ordering information epDualfilter T.I.P.S

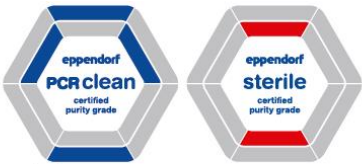
Volume range/ ep Dualfilter T.I.P.S.®/
ep Dualfilter T.I.P.S.® LoRetention/
ep Dualfilter T.I.P.S.® SealMax



| | Racks PCR clean/Sterile (sterile and pyrogen-free) | | Forensic DNA Grade | |
|--|---|--------------|-----------------------------|-------------------------|
| <div></div> <div>dark gray</div> <div>0.1 – 10 µL S, 34 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.504 | 0030 077.610 LoRetention | 0030 077.806 SealMax |
| <div></div> <div>medium gray</div> <div>0.1 – 10 µL M, 40 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.512 | | 0030 077.768 |
| <div></div> <div>light gray</div> <div>0.5 – 20 µL L, 46 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.520 | 0030 077.628 LoRetention | 0030 077.814 SealMax |
| <div></div> <div>yellow</div> <div>2 – 20 µL, 53 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.539 | | 0030 077.776 |
| <div></div> <div>yellow</div> <div>2 – 100 µL, 53 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.547 | 0030 077.644 LoRetention | 0030 077.822 SealMax |
| <div></div> <div>yellow</div> <div>2 – 200 µL, 55 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.555 | | 0030 077.830 SealMax |
| <div></div> <div>orange</div> <div>20 – 300 µL, 55 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.563 | 0030 077.636 LoRetention | 0030 077.849 SealMax |
| <div></div> <div>blue</div> <div>50 – 1,000 µL, 76 mm</div> <div></div> | 960 tips (10 racks x 96 tips) | 0030 077.571 | 0030 077.652 LoRetention | 0030 077.857 SealMax |
| <div></div> <div>dark green</div> <div>50 – 1,250 µL L, 103 mm</div> <div></div> | 480 tips (5 racks x 96 tips) | 0030 077.750 | | |

Ordering information epDualfilter T.I.P.S

Volume range/ ep Dualfilter T.I.P.S.®/
ep Dualfilter T.I.P.S.® LoRetention/
ep Dualfilter T.I.P.S.® SealMax



Racks
PCR clean/Sterile (sterile and pyrogen-free)

violet

0.1 – 5 mL, 120 mm

120 tips (5 racks x 24 tips)

0030 077.580



violet

0.2 – 5 mL L, 175 mm

120 tips (5 racks x 24 tips)

0030 077.725



turquoise

0.5 – 10 mL L, 243 mm

100 tips, individually packed

0030 077.598



epDualfilter T.I.P.S.® SealMax

epService - Pipette calibration

From single repair services to all inclusive programs



Premium In-House System

- > 피펫 점검 전용 공간 운용으로 온도/습도 등 국제표준 규격 준수 (ISO8655)
- > 소수점 이하 5~6 자리수 저울 사용을 통한 정확도 확보
- > 증발 방지를 위한 Evaporation trap 사용
- > Eppendorf Training을 통해 인증받은 피펫 엔지니어의 점검
- > Calibration report 제공 및 점검필증 부착

epService Process

1.제품 입고



2.안정화진행 (2시간 이상)



3. 누수/용량/고장 확인



4.수리/보정



5. Calibration report 발행



Pipette Performance Plans

| Service Operation | QUICK | BASIC | STANDARD |
|---|--|--|--|
| Maintenance and calibration services: | Affordable calibration/adjustment according to EN ISO 8655 | Affordable calibration/adjustment according to EN ISO 8655 | Preventive maintenance calibration/adjustment according to EN ISO 8655 |
| Check of seals for damage / integrity | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Lubrication of seals, O-rings and piston if applicable | | | |
| Preventive maintenance and cleaning: | | | |
| Checking and lubrication of seals, O-rings and piston, replacement of small parts like seals and O-rings, checking seals for damage/integrity | | | <input checked="" type="checkbox"/> |
| Calibration/adjustment according to EN ISO 8655 specifications with 10 measurements per test volume (min, mid, max) | | | <input checked="" type="checkbox"/> |
| Calibration/adjustment according to EN ISO 8655 specifications with 4 measurements per test volume (min, mid, max) | | <input checked="" type="checkbox"/> | |
| Calibration/adjustment according to EN ISO 8655 specifications with 4 measurements per test volume(min, max) | <input checked="" type="checkbox"/> | | |
| Issue calibration report | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Service turnaround (from time of receipt, in business days, excl.shipping duration) | 5 | 5 | 5 |
| Ordering information for pipette services as described above: | | | |
| Fixed-volume pipette | 0050 600.225 | 0050 600.015 | 0050 600.017 |
| Adjustable-volume pipette | 0050 600.229 | 0050 600.071 | 0050 600.076 |
| 8-channel pipette | 0050 600.235 | 0050 600.116 | 0050 600.122 |
| 12-channel pipette | 0050 600.239 | 0050 600.128 | 0050 600.130 |
| Ordering information for hand dispenser maintenance and calibration: | | | |
| Hand dispenser | 0050 600.229 | 0050 600.071 | 0050 600.076 |