

**Instructions for use**  
epT.I.P.S.® – Version A  
English (EN)

## 1 Product description

The pipette tips ep T.I.P.S. are single-use pipette tips for aspirating and dispensing liquids with air cushion pipettes. The packaging of the pipette tips is color-coded and corresponds to the color of the control button of the respective Eppendorf pipette.

## 2 Materials



**NOTICE! Aggressive substances may damage the pipette, pipette tip and accessories.**

- ▶ Check the resistance to chemicals before using organic solvents or aggressive chemicals.
- ▶ Only use liquids without vapors which corrode the materials used.
- ▶ Observe the cleaning instructions.

Assembly	Material
Pipette tip	Polypropylene (PP)
Dual filter	Polyethylene (PE)
Box, lid	Polycarbonate (PC)
Box, lower part	Polypropylene (PP)
Racks	Polypropylene (PP)

## 3 Warnings for intended use



**NOTICE! Aggressive substances may damage the pipette, pipette tip and accessories.**

- ▶ Check the resistance to chemicals before using organic solvents or aggressive chemicals.
- ▶ Only use liquids without vapors which corrode the materials used.
- ▶ Observe the cleaning instructions.



**WARNING! Damage to health due to toxic, radioactive or aggressive chemicals.**

- ▶ Wear personal protective equipment.
- ▶ Observe the national regulations for handling these substances.
- ▶ Observe the material safety data sheets and manufacturer's application notes.



**NOTICE! Carry-over, contamination and incorrect dispensing results due to the incorrect use of pipette tips.**

The pipette tips are for single use only. Prolonged use can have a negative impact on dispensing tasks.

- ▶ Only use the pipette tips once.
- ▶ Do not use autoclaved ep Dualfilter T.I.P.S. for dispensing.

#### 4 Intended use

The pipette tips epT.I.P.S. of the packaging units Reloads, Box, Set, Singles, and Racks of the sizes 0.1 µL – 10 µL, 0.1 µL – 20 µL, 0.5 µL – 20 µL L, 2 µL – 200 µL, 20 µL – 300 µL, 50 µL – 1 000 µL, in combination with the corresponding pipettes, are designed for the transmission of liquids with low contamination, especially to make it possible to use the in vitro diagnostics according to their intended use for samples from the human body and/or for reagents in the context of an in vitro diagnostic application. Therefore, the above-mentioned pipette tips as accessories for in vitro diagnostics are themselves in vitro diagnostics in terms of the guideline 98/79/EG of the European Parliament and Council of October 27th, 1998, about in vitro diagnostics. The pipette tips only are intended for application by trained specialists and only for single use.

#### 5 Operation



Observe the descriptions in the operating manual of the pipette used.

##### 5.1 Pipette tips

epT.I.P.S. pipette tips are available with various degrees of purity, with and without filters, and as special tips.

Pipette tip	Use
ep Dualfilter T.I.P.S	Liquids that require the pipette to be protected from contamination by aerosols.
ep Dualfilter T.I.P.S SealMax	Pipette tips with two-layer, water-impermeable filters to avoid contamination of the pipette or the samples by aerosols, drops, splashes and in case of accidental over-pipetting. If pipetting organic solvents, liquids with low water concentration or high salt concentration, the blocking effect of the filter is reduced.
ep T.I.P.S	Liquids without any special risks.
ep.T.I.P.S LoRetention	Liquids whose surface tension is lower than that of water (e.g., with wetting agent).

## 6 Autoclaving pipette tips

-  Do not use any additional disinfectants before autoclaving the boxes and racks.
-  Remove the packaging foil of the box or the rack before autoclaving.

Product	Temperature [°C]	Overpressure [bar]	Time [min]	Number of possible cycles
ep T.I.P.S., ep T.I.P.S. LoRetention	121	1	20	5
ep T.I.P.S. Rack	121	1	20	10
ep T.I.P.S. Box	121	1	20	100
ep Dualfilter T.I.P.S. ep Dualfilter T.I.P.S. SealMax ep Dualfilter T.I.P.S. LoRetention	Not autoclavable.			

## 7 Technical data

### 7.1 Ambient conditions

Ambience	Only for use indoors.
Ambient temperature	5 °C – 40 °C
Relative humidity	10 % – 95 %, non-condensing.
Atmospheric pressure	79.5 kPa – 106 kPa




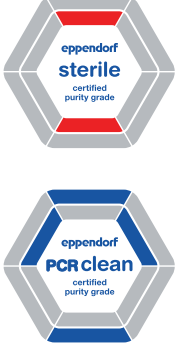

## 8 Transport, storage and disposal

### 8.1 Storage

	Air temperature	Relative humidity	Atmospheric pressure
In transport packaging	-25 °C – 55 °C	10 % – 95 %	70 kPa – 106 kPa
Without transport packaging	-5 °C – 45 °C	10 % – 95 %	70 kPa – 106 kPa

**9 Purity grades and certificates**

9.1 Eppendorf purity grades

	Eppendorf Quality	Sterile	PCR clean	Sterile + PCR clean	Biopur
					

**Batch testing (certified) for the following purity criteria**

Human-DNA-free			■	■	■
DNA-free (free of human + bacterial DNA)					■
DNase-free			■	■	■
RNase-free			■	■	■
PCR inhibitor-free			■	■	■
ATP-free					■
Pyrogen-free (endotoxin-free)		■		■	■
Sterile (European Pharmacopoeia/USP)		■		■	■

**epT.I.P.S.**

epT.I.P.S. Standard + Box + Set	■				
epT.I.P.S. Reloads	■		■		
epT.I.P.S. Racks					■
epT.I.P.S. Singles					■
ep Dualfilter T.I.P.S.				■	
epT.I.P.S. LoRetention	■		■	■	
ep Dualfilter T.I.P.S. LoRetention				■	
ep Dualfilter T.I.P.S. SealMax				■	

## 9.2 Certificates

There are three types of certificates for Eppendorf liquid handling consumables:

Batch-specific certificates are prepared for the following purity grades:

- Biopur
- PCR clean
- PCR clean and Sterile

General certificates of conformity:

- Certificate of conformity for products in the PCR clean purity grade
- Certificate of conformity for verifying metal trace concentrations
- Certificate of conformity on the absence of surface active additives
- Certificate of conformity for HEPA classification of ep Dualfilter T.I.P.S. filter tips.
- Quality management and ISO certificates.

All certificates can be downloaded from our website [www.eppendorf.com/certificates](http://www.eppendorf.com/certificates).

## 10 Handling reloads

