



Instruction for Use TPP Serological Pipettes



The sterile serological pipettes from TPP are designed for pipetting aqueous solutions such as cell culture media. The color coding of the pipette and dispenser allows for easy identification. A clearly legible, black printed bidirectional graduation enables both ascending and descending reading of the liquid volume, while the reservoir at the end of the pipette increases its overall volume capacity.

The extremely small outer diameter of the shaft allows these large-capacity pipettes to access even smaller cell culture flasks. TPP pipettes are pyrogen-free, non-cytotoxic, and individually packaged in blister packs. The specially designed dispenser carton with a perforated tear-off flap serves as a convenient dispenser for easy removal directly at the laboratory bench.

The serological pipette is for single use only. Re-use disclaims all warranties.

Safety instructions

- **Handling and Safety**
Handling of biological materials shall be performed in full compliance with all applicable national and international regulations. Activities must conform to the laboratory's assigned biological safety level, the relevant Safety Data Sheets (SDS), and the manufacturer's Instructions for Use (IFU).
Appropriate personal protective equipment (PPE) shall be always worn during handling.
- **Risk of Contamination**
All operations shall be conducted in accordance with aseptic techniques and established Good Laboratory Practices (GLP). Packaging shall be opened immediately prior to use. Only products that are visually intact and free from defects shall be utilized. Products exhibiting visible damage, contamination, or any other irregularities shall be disposed of in accordance with applicable regulations.
- **Storage**
TPP products shall be stored under the following conditions:
 - Temperature: 10 °C to 30 °C (50 °F to 86 °F).
 - Light exposure: Products shall be protected from direct ultraviolet (UV) radiation.
 - Relative humidity: ≤ 60 %, with a recommended control range of 50 – 60 %.Storage conditions shall be monitored and recorded to ensure compliance with these requirements. Any deviations shall be documented, evaluated, and managed in accordance with the applicable quality.

Instructions

- Check the expiration date (EXP) on the label and packaging. Only use products with a valid EXP date.
- Before use, verify that the packaging is intact, as the consumable is only considered sterile if the packaging is undamaged.

Opening the Wrapper (see Fig. 1)

- Open the packaging at the designated opening mark (indicated by the "peel-off" symbol).
- Bend or fold the paper/plastic wrapper, see Fig. 1 ①. Due to the different material properties, the plastic and paper will separate from each other, see Fig. 1 ②.
- Peel the paper tab away from the plastic tab, see Fig. 1 ③.

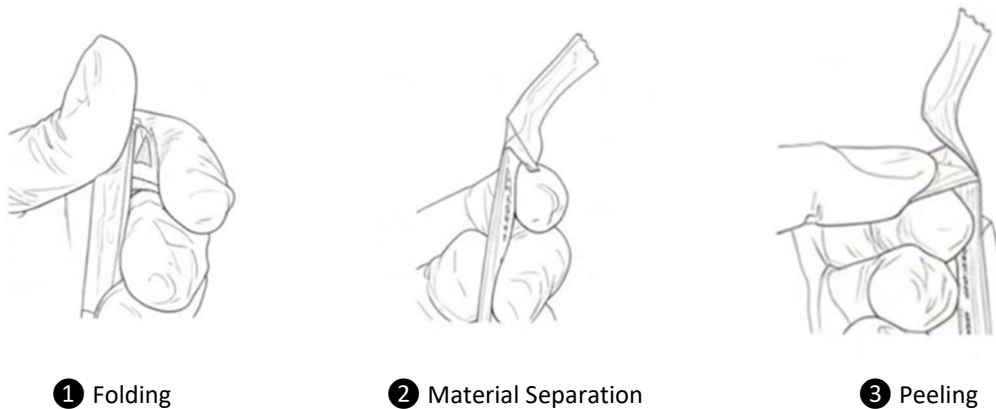


Figure 1: Opening the wrapper

- Place the mouthpiece into the pipetting aid, keeping the pipette in its wrapper as long as possible to maintain sterility.
- If the pipette does not fit properly, replace the silicone holder inside the pipetting aid nosepiece. Once the pipette is secure, remove the remaining wrapper.
- Immerse the tip in the liquid and aspirate/dispense 2–3 times to pre-wet the pipette.
- Draw slightly more than the desired volume. For non-sterile applications, if possible, wipe the outside of the pipette to remove any residual liquid.
- Hold the pipette vertically at eye level. Measure the volume at the base of the meniscus. Avoid overfilling and account for parallax error.
- For target vessels, dispense slowly, keeping the tip in contact with the vessel wall if appropriate (e.g., centrifuge tubes).
- Expel any remaining liquid in the pipette and, if necessary, a small amount of air to ensure complete delivery.

Sub-Zero Storage

- The TPP serological pipette is not suitable for sub-zero storage. Polystyrene (PS) exhibits significantly increased brittleness at temperatures below 0 °C (32 °F). Storage of PS products below this temperature shall not be performed, as the material is prone to spontaneous cracking and shattering, which may result in product failure and potential safety hazards.

General Handling and Limitations

- Graduations are for reference only and serve as approximate guidelines for fill volume. For precise measurements, use calibrated pipettes or volumetric instruments.
- Avoid exposing the black printed bidirectional graduation to 90 % alcohol in combination with mechanical stress (e.g., rubbing or wiping), as this may cause the ink to dissolve or smear.
- Avoid the formation of aerosols when working under sterile conditions with biological agents.
 - Allow the pipette to drain slowly.
 - Never blow out the last drop from a mechanical pipette; this can cause the liquid film at the tip to burst, leading to aerosol formation.
- Allow the liquid sufficient time to reach ambient temperature before pipetting. Ideally, the pipette, pipetting aid, and liquid should all be at the same temperature.



- Volatile liquids evaporate quickly and should be aspirated and dispensed as quickly as possible. For viscous liquids, slow pipetting speeds are essential to ensure complete aspiration and dispensing of the required volume.
- Dispense the liquid slowly into the target vessel, keeping the tip in contact with the vessel wall if appropriate (e.g., centrifuge tubes).
- PS serological pipettes exhibit good chemical resistance to aqueous solutions, saline solutions, buffers, and diluted acids and bases. However, they are not resistant to organic solvents and should not be used with such substances. For details, see the Chemical Resistance.

Technical Data

Component	Material
Pipette	Polystyrene (PS)
Filter plug	Cotton

Measurements	94525	94550	95525	94550
Volume mL	25	50	25	50
Reservoir mL	15	20	15	20
Diameter mm	15 / 20.5	20 / 24	15 / 20.5	20 / 24
Length mm	345	345	345	345
Color coding	Red	purple	red	purple
Wrap	paper / plastic			
Wrap 3-B	plastic / plastic			
Graduations mL	2 / 10	1 / 10	2 / 10	1 / 10
Neg. grad. mL	15	20	15	20
Accuracy	Max. deviation of the graduation: $\pm 2\%$ of measured value			



Packaging Unit for Triple Bagged (3-B) TPP Serological Pipettes

Order No.	Case	Product Description Triple Bagged	Qty. / Bag	Qty. / Case
394525	1/4	Serological pipette 25 ml with reservoir	1 bag of 3	36
394550	1/4	Serological pipette 50 ml with reservoir	1 bag of 3	36

Additional Information

Instructions for use, chemical resistance lists, and quality certificates for individual products can be downloaded from the TPP website at www.tpp.ch.

Disclaimer

TPP products are intended for Research Use Only (RUO) and are not approved for clinical, diagnostic, or in vitro fertilization (IVF) applications. The full Terms & Conditions, including limitations of warranty and liability, intended use, and reseller obligations, are available at:

https://www.tpp.ch/page/qualitaets_sicherung/index.php

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