

Centrifuge Tube 13 – 50 ml



Features of the Centrifuge Tube: 4. Užsukamu dangteliu

- White writing circle on **screw cap** for easy labelling with any writing instrument
- Caps that cannot be over-tightened

- Gas and aerosol tight cap 5. Graduotai
- **Graduations all the way down** to 0.1 ml and 0.5 ml respectively
- Convenient racks available

TPP processes only the highest grade of raw material that fulfils the requirements of USP Class VI. No additives are employed. By this we prevent leaching of substances into the end user's sample.

Centrifugal Acceleration (gx)

The **limit** on "gx" is influenced by:

- type of rotor (diameter)
- speed / revolution per minute

The **maximum** on "gx" depends on:

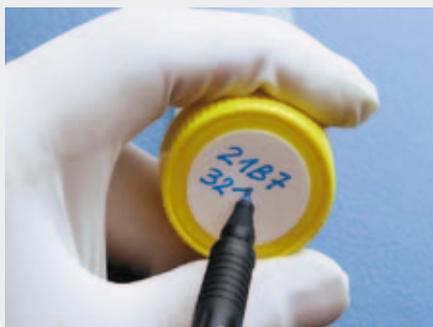
- material of tubes
- centrifugation probe (for ex. organic solvents)



1. Writing area
2. TPP tubes, all with 2-way thread
3. Screw cap cannot be over-tightened



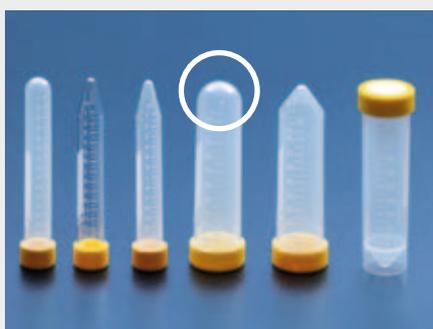
Volume graduation



White marking circle, the TPP advantage



Filled racks simplify procedures



50 ml tube with round bottom

3. Mėgintuvėliai 15 ml talpos

2. Polipropilėniniai

| Type | Product-No. | Volume ml | Version | Dimensions Ø x h mm | Centrifugal Acceleration max gx | Material | Qty/ Bag pcs | Qty/ Case pcs |
|------|-------------|-------------------------|-----------------------------|---------------------------|---------------------------------------|----------|--------------------|---------------------|
| | 91015 | 15 | 9. Kūginiu dugnu conical | 17.1 x 120 | 15'500 | PP | 40 | 800 |
| | 91016 | 13 | round, short | 17.1 x 105 | 15'500 | PP | 40 | 800 |
| | 91017 | 15 | round, long | 17.1 x 120 | 15'500 | PP | 40 | 800 |
| | 91019 | 13 | flat | 17.1 x 100 | 15'500 | PP | 40 | 800 |
| | 91050 | 50 | conical | 30.0 x 115 | 15'500 | PP | 20 | 360 |
| | 91051 | 50 | conical, self-standing | 30.0 x 115 | 15'500 | PP | 20 | 320 |
| | 91056 | 50 | round | 30.0 x 115 | 15'500 | PP | 20 | 360 |
| | 91115 | 15 | conical | 17.1 x 120 | 1'700 | PS | 40 | 800 |
| | 99017 | 18 x 15 ml / 10 x 50 ml | rack "S" | 209 x 98 x 62 | - | PP | 1 | 45 |
| | 99019 | 30 x 15 ml / 20 x 50 ml | rack "L" | 209 x 172 x 62 | - | PP | 1 | 30 |

Centrifuge tube 15 ml / 50 ml, small unit packaging

| Type | Product-No. | Volume ml | Version | Dimensions Ø x h mm | Centrifugal Acceleration max gx | Material | Qty/ Bag pcs | Qty/ Case pcs |
|------|-------------|--------------|---------|---------------------------|---------------------------------------|----------|--------------------|---------------------|
| | 91014 | 15 | conical | 17.1 x 120 | 15'500 | PP | 40 | 360 |
| | 91054 | 50 | conical | 30.0 x 115 | 15'500 | PP | 20 | 160 |

Rack filled with Centrifuge Tubes 15 ml or 50 ml

| Type | Product-No. | Volume ml | Version | Capacity pcs | Centrifugal Acceleration max gx | Material | Qty/ Bag pcs | Qty/ Case pcs |
|------|-------------|--------------|------------------|---------------------|---------------------------------------|----------|--------------------|---------------------|
| | 91515 | 15 | rack "L" + 15 ml | 30 x 15 ml, conical | 15'500 | PP | 1 | 10 |
| | 91550 | 50 | rack "L" + 50 ml | 20 x 50 ml, conical | 15'500 | PP | 1 | 10 |

Quality Assurance

Quality Management

TPP is ISO 9001:2015 certified. The quality standard is audited and confirmed by re-certification processes regularly.

The certificate can be downloaded at www.tpp.ch.

Quality Control: from Raw Material to the ready TPP Product

TPP provides their end users with the highest quality in tissue culture plastics through the design and manufacturing processes.

This intricate monitoring is possible with a complex quality assurance system. Products are dispatched only when all criterias are fulfilled.

Therefore, TPP guarantees faultless and top-quality products for all areas of tissue culture and laboratory uses.

Raw Material

All incoming materials and products pass a rigorous and documented quality control based on specifications. Deliveries are accepted from checked vendors only.

Production

Production is in clean room environment on in-line production lines.

Maintenance

For a 24/7 manufacturing process the maintenance and servicing of the molding forms, production lines and infrastructures is extremely important. Competent specialists daily ensure the availability of the equipment.

Quality Control

All products are tested during and after the manufacturing process based on strict specifications. Each working step can be reviewed for years by a sophisticated IT system. Test results and corrective actions are documented.

Dispatch Control

We perform random examinations of the quality and quantity of the final product with documentation of the results. After release of the data a quality certificate can be generated on www.tpp.ch.

6. Sterilüs

STERILE R

Sterile

All TPP products are sterilized by radiation. Sterility is maintained as long as the packaging remains unopened and free from visible defect. TPP guarantees a "Sterility Assurance Level" (SAL) of 10^{-3} .



Expiry Date

Products that are beyond their expiry date (EXP) can cause spurious results or errors. Such products should not be used. The shelf-life is 6 years. Thereafter TPP will deny accept guarantee claims.

LOT

Lot Number

Each product packaging carries a well visible, black lot number. This batch identification number ensures traceability, analysis and monitoring of all data of raw material supply, processes and quality control over a period of several years.



Single Use

All TPP products, except states otherwise, are intended for single use only.



Caution

All products are solely intended for general laboratory use by competent staff. The products have not been registered for their direct use on humans.



Certificate

Quality certificates from TPP can be generated online at www.tpp.ch.

Quality Standards

Production

TPP products are manufactured in a clean room environment.

Free from pyrogens and detectable endotoxins

Endotoxins belong to the pyrogens, substances that are eliciting fever. They can influence growth and functionality of tissue cultures. All TPP products are tested systematically with the LAL test to prove the absence of endotoxins. The value of endotoxin is <0.06 EU/ml with few exceptions. Exact data are available from the quality certificates that can be generated on www.tpp.ch.

Free from detectable RNA/DNA

7. Be DNaziq ir RNAziq

RNA/DNA are genetic information carriers. Material that is contaminated with RNA/DNA can lead to false positive signals during PCR. They unintentionally amplify along with the desired template. Independent research laboratories periodically test and confirm that no foreign RNA/DNA is detectable with TPP products.

Free from detectable RNase/DNase

RNases/DNases are enzymes that degrade RNA/DNA. They are components of each living cell and cannot be destroyed by the sterilization process. Independent research laboratories periodically test and confirm that no foreign RNase/DNase is detectable with TPP products.

Sterility

Sterility describes the aseptic condition, i.e. the absence of living organisms. During the sterilization process transferable organism such as fungi, bacteria or viruses are killed. TPP receives product sterility through a sterile production process followed by sterilization. TPP guarantees a "Sterility Assurance Level" (SAL) of 10^{-3} . The sterility is validated conforming DIN EN ISO 11137.

Growth treatment

To optimally enhance the adhesion of the cells to the plastic surface, the growth areas of all TPP tissue culture vessels are activated by an opto-mechanic method, developed by TPP. The result is a plane and growth enhancing surface that has an optimal proliferation effect. TPP tissue culture products are tested lot wise for their different tissue growth criteria.

Free from cytotoxic substances

8. Netoksiški lāstelēms ir virusams

Cytotoxic substances are cell poisons that have the ability to weaken or even kill cells. All TPP tissue culture products are free from cytotoxic substances. TPP tests this regularly conforming DIN EN ISO 10993-5. California residents: go to www.tpp.ch for Resident 65 warning.

Leaching

Leaching signifies the slow compounds dissolving (leaching) from plastic ware into buffer and solvents. TPP avoids this by using ultrapure raw-material that is certified to be free of chemical softeners and additive. Recycled and by this potentially contaminated raw material never is processed with TPP products. All raw materials conform to Pharmacopoeia USP Class VI. Additionally optimized molds that work without any slip agents are used during the production process.

All information in the catalog are given in good faith and without warranty of accuracy and completeness, we assume no liability for printing errors, mistakes and product changes.