



PCR & qPCR work areas

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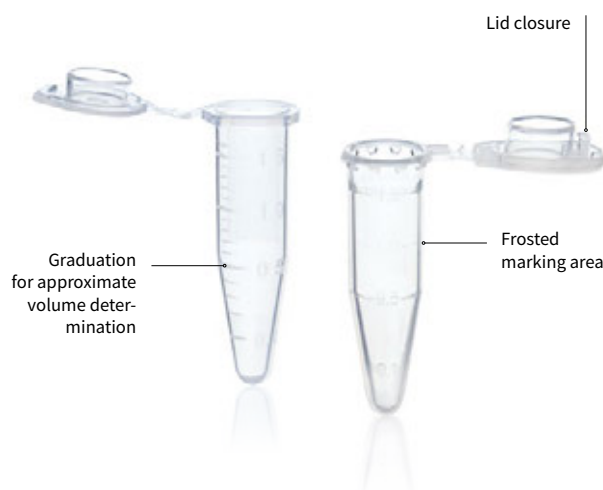
PCR-suitable microtubes



- ✓ Lid membrane highly transparent and easy to pierce
- ✓ Tight-sealing, easy to open cap
- ✓ High-purity polypropylene free from PCR inhibitors

DNA isolation and preparation of the master mix are essential for a successful PCR, require the highest possible product cleanliness, good impermeability, and the option for use in high throughput analysis.

The quality level BIO-CERT® PCR QUALITY ensures the required cleanliness for PCR-setups, storage of PCR samples and other applications with high cleanliness requirements. This includes absence of DNA, RNase, DNase, pyrogenes and PCR inhibitors.



Applications

- + DNA and RNA isolation
- + DNA and RNA purification
- + Preparing a master mix
- + Sample dilution

Features

- + Made of pure polypropylene
- + Tight-sealing cap
- + In sizes 0.5 ml, 1.5 ml, 2 ml and 5 ml
- + Highly transparent and consistent wall thickness

User information

- When incubating at high temperatures, we recommend using microtubes with lid closure in order to prevent the vessels from bursting open.
- Microtubes with lid closure can be centrifuged up to 30,000 x g.

Caution: The relative centrifugal force (RCF) is dependent on the radius of the rotor and the speed (RPM) of the centrifuge!

General conversion formula:

$$g = RCF = ((U/min)/1000)^2 \cdot r \cdot 1.118$$

g-force Gravitational acceleration

RCF: Relative centrifugal force
(corresponds to the g-force)

r: Rotation radius

U/min: Rotor revolutions per minute (speed)

We advise against autoclaving microtubes. Autoclaving can be a source of contamination for disposable products.

Advantages of PP

- **High resistance to chemicals:** microtubes can be used with DMSO and other aggressive chemicals.
- **Good temperature resistance:** Containers remain stable even at high temperatures; these products are generally autoclavable at 121 °C (2 bar), acc. DIN EN 285.
- **Minimal retention:** PCR tubes, microtubes and tips have no residual wetting and the material is biologically inert – no adhesion of biomolecules to the surfaces.

The microtubes are not recommended for long-term storage of samples. We recommend using microtubes with screw cap (chapter III) or cryogenic tubes (chapter I).

Accessories

Microtube rack, PP

Numbered positions for 20 microtubes, 1.5 ml. Autoclavable at 121 °C (2 bar), acc. DIN EN 285. Pack of 1.

Cat. No. 7806 05



Mini cooler, PC

Durable polycarbonate filled with non-toxic gel. Mini coolers hold twelve 0.5 ml to 2.0 ml tubes. Pack of 1.



Bench temp. maintained	Time held	Color	Cat. No.
0 °C	60 min.	red	114930
-20 °C	60 min.	yellow	114935
-70 °C	45 min.	white	114940

Microtube rack, PP

Stackable racks with alpha-numeric positions. Operating temperature -20 °C to +90 °C. Autoclavable at 121 °C (2 bar), acc. DIN EN 285. Density 1.2 g/cm³. Will not float in waterbath. Pack of 5.



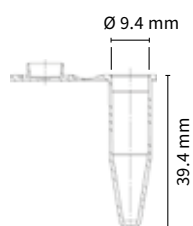
For Ø up to mm	Positions	white Cat. No.	blue Cat. No.	red Cat. No.
11	8 x 16	4341050	4341051	4341052
13	6 x 14	4341000	4341001	4341002



Technical information & Ordering data

Microtubes with snap lid

- Free from PCR inhibitors
- Perfect lid seal to protect against evaporation
- High transparency, with easy to pierce lid membrane



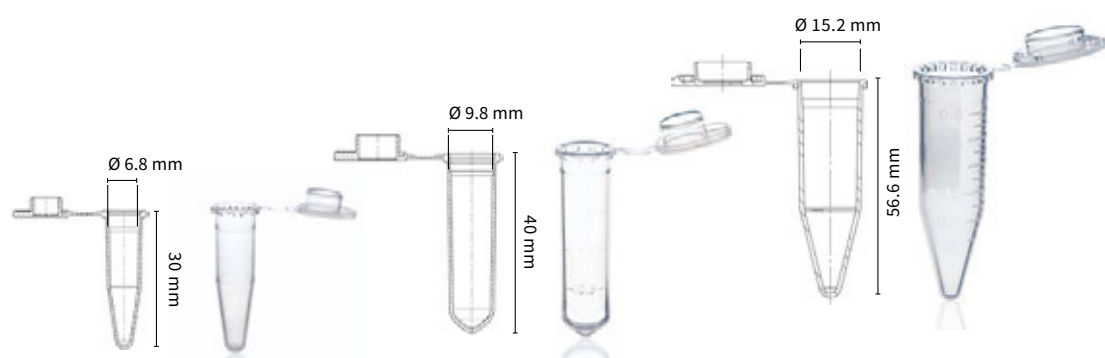
1.5 ml microtubes with snap lid



Color	transparent	yellow	blue	green	orange	amber
Outer-Ø [mm]	10.7	10.7	10.7	10.7	10.7	10.7
RCF max. (at 20 °C, t 20 min)	20,000	20,000	20,000	20,000	20,000	20,000
Pack of	500 pieces	500 pieces	500 pieces	500 pieces	500 pieces	500 pieces
Cat. No.	780420	780421	780422	780423	780424	780425



Information on the different quality levels is provided on page 5.

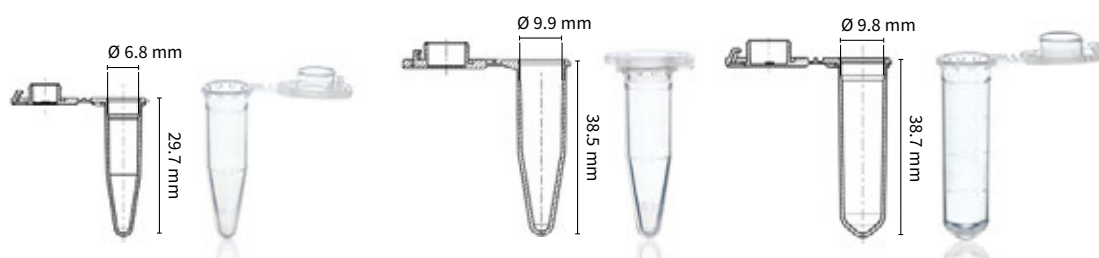


Microtubes with snap lid

Volume	0.5 ml	2.0 ml	5.0 ml
Lid membr. thickness [mm]	0.3	0.3	0.3
Outer-Ø [mm]	7.9	10.7	16.6
Height with closed lid [mm]	31.4	41.15	59
RCF max. (at 20 °C, t 20 min)	10,000	20,000	25,000
Pack of	500 pieces	500 pieces	250 pieces
Cat. No.	780507	780550	780555

Microtubes with lid closure

- Enhanced lid closure protects against accidental opening while heating samples
- Free from PCR inhibitors
- Can be centrifuged up to 30,000 x g



Microtubes with lid closure

Volumen	0.5 ml	1.5 ml	2.0 ml
Lid membrane thickness [mm]	0.3	0.4	0.45
Outer-Ø [mm]	10.0	12.8	12.8
Height with closed lid [mm]	30.0	38.8	40.0
RCF max. (at 20 °C, t 20 min)	30,000	30,000	20,000
Pack of	500 pieces	1000 pieces	500 pieces
Cat. No.	780536	780540	780546

The lid closure protects against accidentally opening the cap



The wide lip on the cap allows for one-handed handling





PCR tubes for small and medium sample throughput

When establishing a PCR, users must select the right primer, reagents, optimal annealing temperatures, and the ideal duration for each PCR step.

The optimal method is important to ensure the PCR reaction is stable and that no complications occur later in the routine process. A large number of preliminary tests are required to check the influence of different parameters on the individual PCR.

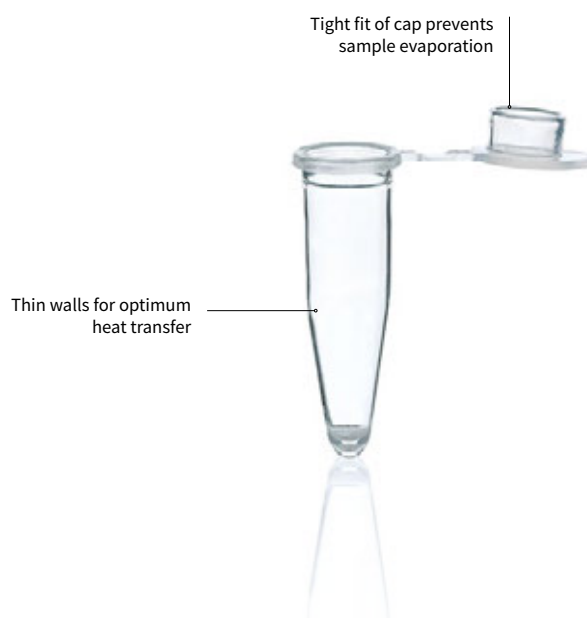
BRAND offers a broad spectrum of single PCR tubes and PCR strips. Our product range allows users to optimize their methods and work economically, even with a small number of samples. Users can also process samples in parallel without accidental mix-ups thanks to the different color options.

Single PCR tubes



- ✓ Thin walls for rapid heat transfer
- ✓ Tightly closing covers protect samples against evaporation
- ✓ Colors available for easy identification of samples

Single PCR tubes from BRAND with volumes of 0.2 and 0.5 ml are the efficient solution for small and medium sample throughput. The extra thin-walled tubes ensure optimum heat transfer during PCR for shorter cycle times over a wide range of temperatures. To prevent sample losses from heating, the caps reliably seal the vessels with their tight fit. This ensures quality and repeatable results even with small sample volumes. At the same time, the caps can be opened and closed with ease. Tubes are available in several colors, allowing easy visual sample tracking.



Applications

- + Tests with small sample sizes
- + Testing different primer variants
- + Establishing a method
- + Inspecting reagents

Features

- + Made of pure polypropylene
- + Tight-sealing cap
- + In sizes 0.2 and 0.5 ml and colors transparent, rose, yellow, green and blue
- + Suitable for all standard thermal cyclers

User information

If the PCR tubes become deformed, check whether the closing pressure for the thermocycler lid is too great or whether it is distributed unevenly over the PCR tube: Most cycler manufacturers recommend placing empty tubes with the same type of cap (domed or flat) into the corners of the thermoblocks as “buffers,” in order to distribute the force over multiple tubes when there is only a small numbers of samples.

We advise against autoclaving PCR products. Autoclaving can be a source of contamination for disposable products.



In addition to setting up PCR reactions, tubes are suitable for:

- setting up a restriction digest or ligation
- aliquoting and short-term storage between 4 °C and 25 °C

PCR tubes should not be used:

- to store samples for an indefinite period of time
- to store samples and aliquots down to -20 °C

qPCR products from BRAND

PCR tubes:

Tubes with highly transparent caps for sensitive detection of fluorescence signals

PCR plates:

Plates that fit in quantitative Real-Time thermal cyclers, also available in white

PCR seals:

Seals, highly transparent for sensitive detection of fluorescence signals

Accessories



Mini cooler, PC

Mini coolers are designed to protect a wide range of solutions (enzymes, DNA, RNA, cell suspensions) by helping to maintain freezer temperatures on the lab bench. Durable polycarbonate filled with non-toxic gel. Mini coolers hold twelve 0.5 ml to 2.0 ml tubes. Pack of 1.



Bench temp. maintained	Time held	Color	Cat. No.
0 °C	60 min.	red	114930
-20 °C	60 min.	yellow	114935
-70 °C	45 min.	white	114940

PCR box/rack, PP

Assorted colors (red, yellow, green, purple, blue). Suitable for sample preparation, for keeping and storing 0.2 ml single tubes, 8-strips, and 12-strips, and 96-well PCR plates. These racks can also be stacked without lids. Withstand temperatures from -80 to +121 °C. Pack of 5.



Cat. No. 781362



Mini cooler PCR, PP

With transparent lid. For protecting samples from warming. The mini PCR cooler keeps samples at 4 °C for approximately 3 hours. The insulating gel changes from violet to pink at 7 °C. Suitable for 0.2 ml single tubes, 8-strips, and 12-strips, as well as 96-well PCR plates. Pack of 2.



Cat. No. 781260

Technical information & Ordering data

Single PCR tubes with flat or domed cap

- Perfect cap seal to protect against evaporation
- Easy to open and close
- Various colors allow fast sample identification
- Fits all commonly used thermocyclers with a heated lid

0.2 ml PCR tube with attached domed cap

Color	transparent
Inner Ø [mm]	5.5
Height [mm]	20.5
Pack of	1000 pieces (1 bag)
Cat. No.	781300

0.2 ml PCR tube with attached flat cap

Color	transparent	rose	yellow	green	blue
Inner Ø [mm]	5.5	5.5	5.5	5.5	5.5
Height [mm]	20.5	20.5	20.5	20.5	20.5
Pack of	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)
Cat. No.	781305	781301	781302	781303	781304

0.5 ml PCR tube with attached flat cap

Color	transparent	rose	yellow	green	blue
Inner Ø [mm]	7.2	7.2	7.2	7.2	7.2
Height [mm]	30.5	30.5	30.5	30.5	30.5
Pack of	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)	1000 pieces (2 bags of 500)
Cat. No.	781310	781311	781312	781313	781314

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