

BIORON qPCR- Capillaries (User Guide Polycarbonate Capillaries)

1.) Sample preparation / PCR Mixture preparation

Samples for PCR can be handled and prepared according to existing protocols. There are no changes in preparing the PCR Mix. It is possible to use our polycarbonate capillaries for PCR volumes from 10 µl to 50 µl with your PCR programme (for further details see Performing PCR / PCR program).

2.) Handling capillaries and caps

For better/easier handling of qPCR-capillaries and caps we provide a "Transfer-Pin" to take the capillaries and the caps out of the rack-box. The Transfer-Pin is part of each sales unit. If you do not use the "Transfer-Pin", we recommend to wear disposable gloves to protect the PCR-reaction from contamination, for example by DNases.

For sealing the capillaries with the caps, please use the transfer pin, to transfer caps from the rack-box to the polycarbonate capillary. Ensure that each capillary is closed tightly by checking it visually (the smaller part of the caps must be completely inserted into the plastic capillary). When the cap is correctly inserted you can hear a double "click".



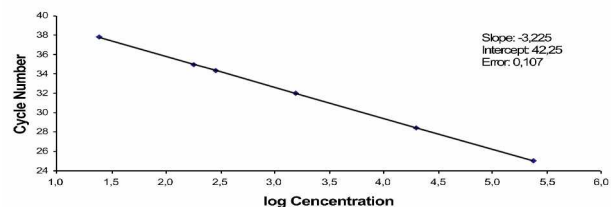
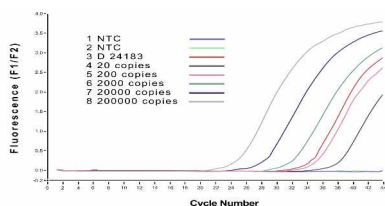
3.) Performing PCR / PCR Programs

Our polycarbonate capillaries have a larger diameter, compared to the original 20-µl glass capillaries.

To guarantee effective heat transfer from the outside of the capillaries to the middle of the PCR reaction, due to the larger diameter, it may be necessary to increase the "hold-times" at Denaturing and Annealing.

For this reason we recommend strongly to alter your programme with at least 7 seconds at 95°C for the denaturing step and 5 seconds for the annealing step. Too short denaturing and annealing times will lead to a complete failure of your PCR, or at least to much higher CT-times.

If your current program uses times in excess of our recommendations normally no changes are required, but if you need to experiment we suggest increases in hold times of 2 seconds would be sufficient, with the exception that GC rich DNA that may benefit from denaturing hold of 10 seconds. (This would be the case where no PCR signal had been observed with a 5 second denaturing time).



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4.) Sample recovery after PCR

To access the sample for recovery remove the cap with the transfer pin and aspirate the sample with a 10µl tip. If you do not have suitable narrow tips available you can cut the tip of the capillary with scissors and centrifuge out the sample to a clean tube.



Stackrack with 96 capillaries and 96 Caps

Catalog #	Description	Pack size
A3130100	qPCR-capillaries, caps, transferpin, clear	100pcs/carton
A3130960	qPCR-capillaries, caps, transferpin, clear	10 racks/96 pcs per rack
A3130SK0	LightCycler qPCR-capillaries Set with rotor-adapter for light cycler 1.2 or 1.5	1 Rotoradapter plus 5x96 racks
A3130SK1	LightCycler qPCR-capillaries Set with rotor-adapter for light cycler 2.0	1 Rotoradapter plus 5x96 racks

Highlights

- **cost effective tool for Light cycler users**
- **No change in sensitivity**
- **No breaking capillaries**
- **Post-PCR sample recovery**

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