

The logo for QuickBlue, featuring the brand name in a blue, sans-serif font inside a white oval with a subtle drop shadow, set against a light blue background with a faint pattern of overlapping circles.The logo for QuickBlue, featuring the brand name in a blue, sans-serif font inside a white oval with a subtle drop shadow, set against a light blue background with a faint pattern of overlapping circles.

**DNA extraction kit**

## QuickBlue

QuickBlue DNA extraction kit

For any questions or suggestions pls. contact us via email:  
info@qbioanalytic.  
com

QuickBlue DNA extraction kit (10 extractions) QB-Ex-10

QuickBlue DNA extraction kit (50 extractions) QB-Ex-50

QuickBlue DNA extraction kit (250 extractions) QB-Ex-250

[www.QuickBlue.de](http://www.QuickBlue.de)

DNA extraction kit for  
bacterial DNA  
and eucaryotic DNA  
from matrix

**User Manual**

## Substanzen:

QuickBlue DNA Extraktions-Kit	QB-Ex-10	QB-Ex-50	QB-Ex-250
Lysis buffer	1 Bottle (4,5 ml)	1 Bottle (25 ml)	1 Bottle (125 ml)
Protease K	1 Cup	1 Cup	2 Cup
Nanoparticles	1 Cup	1 Cup	4 Cup
Binding buffer	1 Bottle (4,5 ml)	1 Bottle (25 ml)	1 Bottle (125 ml)
washing buffer	1 Bottle (6 ml) fill up with 4,5ml Ethanol	1 Bottle (30 ml) fill up with 22,5ml Ethanol	1 Bottle (130 ml) fill up with 97,5ml Ethanol
Elutionspuffer	1 Bottle (1,5 ml)	1 Bottle (15 ml)	1 Bottle (100 ml)
Benutzerhandbuch	1 exemplar	1 exemplar	1 exemplar

## Additional required material:

1. magnetic stand for immobilization of paramagnetic nanoparticles
2. sterile 1,5 ml cups
3. thermal shaker or incubator (65°C)

## Storage

The QuickBlue-DNA extraction kit should be stored at 4-10°C, short storage at room temperature is possible. Correct storage and handling increases the endurance of the extraction kit.

## Trouble shooting

1. always be gentle by pipetting, do not lose the beads!
2. always use an extraction control to be sure that no components are contaminated!
3. use always sterile cups and pipette tips
4. control your DNA solution in the PCR by spiking (inhibitor control)

## Extraktionsprotokoll:

1. **For bacteria:**  
Transfer 1 ml of your pre-enrichment culture (matrix incubated in medium) in a sterile 1,5 ml cup. Centrifuge for 10 min at 10.000 g and discard supernatant. Pipette **400 µl lysis buffer and 10 µl Proteinase K onto the pellet** and mix well. Incubate mixture for **30 min at 65°C** on a thermal shaker or in an incubator (than: mix several times during incubation).
2. **For eukaryotic cells:**  
Transfer 100 mg sample (tissue) in a sterile 1,5 ml cup. Pipette **400 µl lysis buffer and 10 µl Proteinase K** onto the pellet and mix well. Incubate mixture for **30 min at 65°C** on a thermal shaker or in an incubator (than: mix several times during incubation).
3. **For both extractions:**  
Centrifugate the samples again for 5 min at 10.000 g to remove the matrix and cell debris. The clarified **supernatant** containing the DNA **must transfer into a new sterile 1,5 ml cup**.
4. Add **400 µl binding buffer and 25 µl beads** (mix well before pipetting) to the DNA-containing mixture, **incubate 5 min** at room temperature
5. **immobilize nanoparticles** on a magnetic stand and **remove** gently the **supernatant**
6. remove sample from the magnetic stand and **wash nanoparticles with 400 µl washing buffer**
7. **immobilize nanoparticles** on a magnetic stand and **remove** gently the **washing puffer**
8. incubate the **opened cup** at room temperature so remaining **ethanol** could **evaporate** remove sample from the magnetic stand and resuspend the nanoparticles with **100 µl elution buffer and incubate at 65 °C for 5 min**
9. finally, **immobilize nanoparticles** on a magnetic stand and **transfer** the clear **supernatant** (containing DNA) into a fresh sterile cup.
10. the DNA solution is ready for PCR and could directly transferred into the mastermix