

GenUP™ PCR Cleanup Kit

LOT: See product label

EXPIRY DATE: See product label

ORDERING INFORMATION

PRODUCT	GenUP™ PCR Cleanup Kit				
	CAT. NO.	BR0700301	BR0700302	BR0700303	BR0700304
SIZE	10 preps	50 preps	250 preps	500 preps	
COMPONENTS					
Buffer BINDING BP	7 ml	30 ml	150 ml	2 × 150 ml	
Buffer ELUTION	2 ml	2 × 2 ml	15 ml	30 ml	
Mini Filters (green)	10	50	5 × 50	10 × 50	
Collection Tubes (2 ml)	10	50	5 × 50	10 × 50	
Elution Tubes (1.5 ml)	10	50	5 × 50	10 × 50	

STORAGE

Room temperature (until expiry date – see product label).

If precipitation appears, gently warm the solution to dissolve the precipitate.

FEATURES

- Fast and convenient PCR cleanup procedure in only 3 min
- Just bind and elute, no need for washing steps
- High-purity DNA recovery for all demanding applications

APPLICATIONS

- Fast purification of products from PCR amplification reactions

DESCRIPTION

biotechrabbit™ GenUP PCR Cleanup Kit has been developed for quick and easy cleanup or concentration of PCR fragments from reaction mixtures. High-yield PCR product with excellent quality is purified from the PCR mixtures in a simple two-step procedure. DNA is bound to a Mini Filter using a novel buffer and eluted. The need for a washing step has been eliminated, reducing hands-on-time. The procedure takes approximately 3 min, compared to 8 min required to other kits. The purified DNA is ready for use in all demanding molecular biology applications, including restriction digestion, ligation and sequencing.

GenUP™ PCR Cleanup Kit

SPECIFICATIONS

STARTING MATERIAL	Amplification reaction mixtures (up to 50 µl)
EXTRACTION TIME	Approximately 3 min
BINDING CAPACITY	>20 µg DNA
DNA SIZE	60 bp – 30 kb
RECOVERY RATE	60–95%, depending on length of the PCR fragment

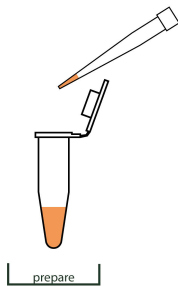
MATERIALS SUPPLIED BY THE USER

- Centrifugation tubes
- Pipet tips

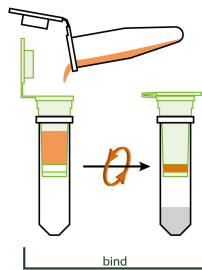
STEPS BEFORE STARTING

- Mark all vials and filters to avoid confusion when purifying multiple preps.
- Perform all centrifugation steps at room temperature.
- *Optional:* to increase the yield, warm the Buffer ELUTION to 50°C before use.

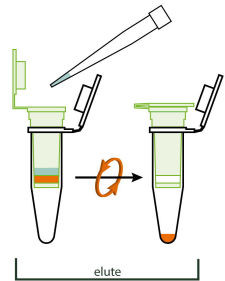
SHORT PROTOCOL



- Transfer the PCR sample to a centrifugation tube, add Buffer BINDING BP and mix well.



- Transfer the sample to a Mini Filter (green) placed in a Collection Tube and centrifuge.



- Add Buffer ELUTION, incubate and centrifuge.
- Purified DNA in the Elution Tube is ready for use.

PROTOCOL

PROCEDURE

NOTES

- | | |
|---|--|
| <ul style="list-style-type: none"> Transfer up to 50 µl of the PCR sample to a centrifugation tube. For PCR samples >50 µl, split into aliquots and transfer to multiple tubes. To each tube, add 500 µl Buffer BINDING BP and mix well. | <ul style="list-style-type: none"> <i>Alternatively</i>, pipet 500 µl Buffer BINDING BP directly into a Mini Filter placed in a Collection Tube and add up to 50 µl of the PCR sample. Mix by carefully pipetting three times up and down. Do not destroy the filter membrane with the pipet tip. |
| <ul style="list-style-type: none"> Place a Mini Filter (green) in a Collection Tube. Transfer the sample to the Mini Filter. Centrifuge for 2 min at 10,000 × g (12,000 rpm). For split PCR samples discard the filtrate and reload the Mini Filter with the remaining mixture and repeat centrifugation. Discard the Collection Tube with the filtrate. | <ul style="list-style-type: none"> Avoid any contact of the Mini Filter with the filtrate. |
| <ul style="list-style-type: none"> Place the Mini Filter into a new 1.5 ml Elution Tube. Add 10–20 µl Buffer ELUTION to the center of the Mini Filter. Incubate for 2 min at room temperature. Centrifuge at 6,000 × g (8,000 rpm) for 1 min. Discard the Mini Filter. | <ul style="list-style-type: none"> Using less Buffer ELUTION than the starting PCR volume concentrates the DNA sample. To improve yields, warm Buffer Elution to 50°C. Longer incubation (5 min) improves yields. |
| <ul style="list-style-type: none"> The DNA in the Elution Tube can be used immediately. | <ul style="list-style-type: none"> Store the DNA at 4°C (short-term) or –20°C (long-term). |

TROUBLESHOOTING

PROBLEM

SOLUTION

LOW RECOVERY

Poor elution	Add the Buffer ELUTION directly to the center of the Mini Filter.
Starting volume too large	Do not transfer more than 50 µl PCR sample mixed with 500 µl Buffer BINDING BP to the Mini Filter before centrifuging. For larger PCR sample volumes, transfer multiple aliquots of 50 µl to new tubes before mixing with Buffer BINDING BP. Centrifuge after adding each aliquot to the filter.

SAFETY PRECAUTIONS

- This kit is made for single use only!
- Don't eat or drink components of the kit!
- The kit shall only be handled by educated personal in a laboratory environment!
- Wear gloves while handling these reagents, and avoid skin contact! In case of contact, flush with water immediately!
- Handle and discard waste according to local safety regulations!
- Do not add bleach or acidic components to the waste after sample preparation!

GenUP™ PCR Cleanup Kit

CERTIFICATE OF ANALYSIS

The components of the kit were tested by purification of DNA from amplification reactions and subsequent analysis of the recovered DNA.

Quality confirmed by: Head of Quality Control

SAFETY INSTRUCTIONS

For safety instructions please see Safety Data Sheets (SDS)/Sicherheitshinweise finden Sie in den SDS unter: <http://www.biotechrabbit.com/support/documentation.html>.

USEFUL HINTS

- Visit Applications at www.biotechrabbit.com for more products and product selection guides.
- Most biotechrabbit products are available in custom formulations and bulk amounts.

CONTACT BIOTECHRABBIT

biotechrabbit GmbH
Volmerstr. 9a
12489 Berlin, Germany

info@biotechrabbit.com
support@biotechrabbit.com
www.biotechrabbit.com

Phone: +49 30 555 7821-10
Fax: +49 30 555 7821-99



Legal Disclaimer and Product Use Limitation

Purchase of product does not include a license to perform any patented applications; therefore it is the sole responsibility of users to determine whether they may be required to engage a license agreement depending upon the particular application in which the product is used. This product was developed, manufactured, and sold for in vitro use only. It is not suitable for administration to humans or animals.

Trademarks: biotechrabbit™, GenUP™ (biotechrabbit GmbH).

valid from 24.08.2016