

GenUP™ Exo SAP Kit

LOT: See product label

EXPIRY DATE: See product label

ORDERING INFORMATION

CAT. NO.	SIZE	PACKAGE CONTENT
BR0701801	100 rxn	200 µl Exo1-SAP
BR0701802	500 rxn	1 ml Exo1-SAP
BR0701803	2000 rxn	4 × 1 ml Exo1-SAP

COMPONENT

COMPOSITION

Exo1-SAP

Exonuclease I and SAP in storage buffer containing 50% glycerol (v/v).

STORAGE

-20°C (until expiry date – see product label)

FEATURES

- Fast 15 min PCR cleanup without the need for spin columns
- 100% recovery – no loss of PCR product
- Simple process – just add Exonuclease 1 and Shrimp Alkaline Phosphatase to PCR mix
- Easy scalability and automation

APPLICATIONS

- PCR cleanup prior to sequencing or genotyping
- Removal of nucleotides and primers from PCR reaction

GenUP™ Exo SAP Kit

DESCRIPTION

biotechrabbit™ GenUP Exo SAP Kit is designed for quickly and easily cleaning up PCR amplification reactions, enabling their direct use in sequencing or genotyping.

The kit provides a combination of Shrimp Alkaline Phosphatase (SAP) and Exonuclease 1 (ExoI) for removing nucleotides and primers. Double-stranded DNA is not affected, ensuring 100% recovery of PCR products.

Both enzymes are active in PCR buffers and completely inactivated by heating at 80°C: no further processing is required. Shrimp Alkaline Phosphatase dephosphorylates nucleotides and primers, and the 3' → 5' exonuclease activity of Exonuclease 1 degrades single-stranded primers.

MATERIALS SUPPLIED BY THE USER

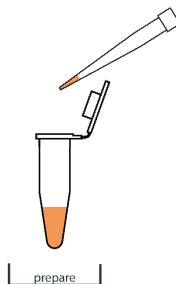
- Reaction tubes
- Pipet tips

SHORT PROTOCOL

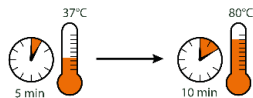
STEPS

- Add 2 µl ExoI-SAP to 5 µl of a completed PCR reaction.

SCHEME



- Incubate at 37°C for 5 min.
- Heat inactivate at 80°C for 10 min.



PROTOCOL FOR CLEANING-UP PCR PRODUCTS**PROCEDURE****NOTES**

- | | |
|---|--|
| <ul style="list-style-type: none">• Transfer 5 µl of a completed PCR amplification to a new reaction tube.• Add 2 µl ExoI-SAP.• Incubate at 37°C for 5 min. <hr/> | <ul style="list-style-type: none">• Volumes may be scaled proportionally.• Heating steps may conveniently be performed in a suitably programmed thermocycler.• Process can be automated. <hr/> |
| <ul style="list-style-type: none">• Heat inactivate at 80°C for 10 min. <hr/> | <ul style="list-style-type: none">• In a standard thermocycler, adjusting the temperature from 37°C to 95°C and back to 37°C is sufficient to completely inactivate the enzymes. <hr/> |
| <ul style="list-style-type: none">• The cleaned PCR reaction is ready for sequencing or genotyping. | <ul style="list-style-type: none">• For short-term storage, keep PCR mixture at 4°C, for long-term storage at -20°C. |

CERTIFICATE OF ANALYSIS

Quality Control

Shrimp Alkaline Phosphatase

Specificity

SAP Removes 5'-phosphates from DNA, RNA, dNTPs and proteins.

Purity

Purified to apparent homogeneity. SAP is highly pure and tested free of contaminating nucleases.

Exonuclease 1

Specificity

Exo1 is a 3'-5' exonuclease, specific for single stranded DNA.

Purity

Purified to apparent homogeneity. Exo1 is highly pure and tested free of contaminating nucleases.

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

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Legal Disclaimer and Product Use Limitation

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