

# A'SAP PCR Clean-up

A'SAP is a quick, easy and reliable enzymatic cleanup reagent for PCR product cleanup

- Removes excess primers and dNTPs
- Fast 15 minute protocol
- Add directly to PCR product
- 100% Sample Recovery
- Scalable for different reaction sizes
- No interference on downstream applications
- Easy to automate

## Enzymatic cleanup of PCR products

The ArcticZymes A'SAP method utilizes two hydrolytic enzymes, recombinant **Shrimp Alkaline Phosphatase (rSAP)** and **Exonuclease I (Exo I)**. The combination of these enzymes ensures complete dephosphorylation of dNTPs and degradation of residual primers, enabling downstream applications, such as sequencing, genotyping, cloning or SNP analysis. The reagents are active in commonly used PCR buffers and eliminates the need for buffer exchange.



## Protocol

A'SAP can be added directly into the PCR product, followed by 5 minute incubation at 37°C. Inactivation of both enzymes is achieved in only 10 minutes at 80°C. PCR products are immediately ready for downstream applications without any need for further processing.



## Achieve high quality sequences

Unincorporated primers and nucleotides can lead to high background and miscalling of bases. A'SAP efficiently removes these and will improve the overall quality of the sequences (read length, base calling)

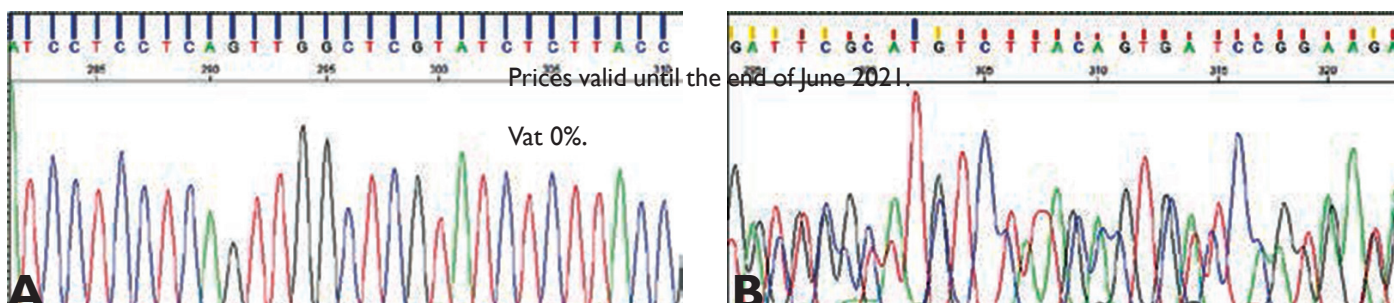


Figure 1. PCR clean-up is important prior to sequencing. Panel A shows a sample that has undergone A'SAP treatment, while panel B shows a sample without this treatment. A'SAP treatment resulted in significant improvement in overall sequence quality.

## PCR product intact

A'SAP PCR purification protocol eliminates the need for time-consuming gel, column or bead purifications. The double stranded PCR product is left completely intact, irrespective of its size.

## Ordering information

A'SAP™ PCR Clean-up kit		
80350-500	A'SAP™ PCR Clean-up kit, 500rxn	355€
80350-2000	A'SAP™ PCR Clean-up kit, 2000rxn	1185€



For every received order,  
we donate to Baltic Sea protection.

Prices valid until the end of December 2022. Vat 0%.

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