

# A'SAP™ PCR clean-up

ArcticZymes presents A'SAP, a quick, easy and reliable enzymatic reagent for PCR cleanup.

- Removes excess primers and dNTPs
- Fast 15 minute protocol
- Add directly to PCR product
- 100% Sample Recovery
- Scalable for different reaction sizes
- 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 sequencing and other downstream applications. The reagents are active in commonly used PCR buffers and eliminates the need for buffer exchange.



## Protocol

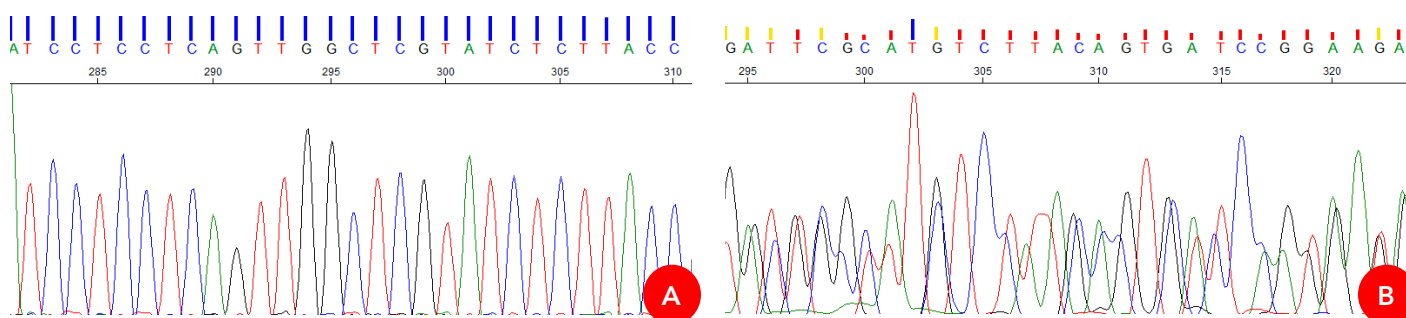
A'SAP can be added directly into the PCR product, followed by 5 minute incubation at 37°C. Inactivation of both enzymes is achieved in only 10 minutes at 80°C. PCR products are immediately ready for downstream applications without any need for further processing.

## 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).

## 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.



**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.

## Liste de Produits

Référence	Désignation	Conditionnement
ARC80350-100	A'SAP (100 rxn)	100 rxn
ARC80350-2000	A'SAP (2000 rxn)	2000 xn
ARC80350-500	A'SAP (500 rxn)	500 rxn
Autres produits*		
ARC70100-201	HL-ExoI 20-2500 (20 U/microl)	2500 U (0,125 ml)
ARC70500-201	Cod UNG 1-100 (1 U/microl)	100 U (0,1 ml)
ARC70501-201	Cod UNG Triton FREE (1 U/microl)	100 U (0,1 ml)
ARC70600-201	dsDNase 2-250 (2 U/microl)	250 U (0,125 ml)
ARC70700-201	SAP 1-1000 (1 U/microl)	1000 U (1 ml)
ARC70710-201	Glycerol free rSAP (20 U/microl)	5000 U (0,25 ml)
ARC70800-201	HL-dsDNase 2-250 (2 U/microl)	250 U (0,125 ml)
ARC70800-201-TF	HL-dsDNase 2-250 Triton Free (2 U/microl)	250 U (0,125 ml)
ARC70900-201	SAN 5k (25 U/microl)	5000 U (0,2 ml)
ARC70910-202	HL-SAN 25k (25 U/microl)	25000 U (1 ml)
ARC70920-202	SAN HQ-25 kU (25 U/microl)	25000 U (1 ml)
ARC70930-001	SAN HQ ELISA (1x 96-well stripe plate)	1x96 stripe plate
ARC71500-201	IsoPol- 5-200 (5 U/microl)	200 U (0,04 ml)
ARC71501-201	IsoPol SD+ 5-200 (5 U/microl)	200 U (0,04 ml)
ARC71502-201	IsoPol BST+ 5-200 (5 U/microl)	200 U (0,04 ml)
ARC71600-201	ArcticZymes Proteinase (0,2 U/microl)	50 U (0,25 ml)
ARC71800-202	T4 DNA Ligase 5k-250k (5000 U/microl)	250000 U (0,05 ml)
ARC80200-50	Heat&Run gDNA removal Kit (50 rxn)	50 rxn
ARC80310-100	EcA'SAP 1-Tube (100 rxn)	100 U (100 rxn)
ARC80400-100	PCR Decontamination Kit (100 rxn)	100 rxn

\*Retrouvez tous les conditionnements disponibles sur notre site [www.ozyme.fr](http://www.ozyme.fr)

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