

# DTI ExoSAP

## Reagent

- Quick protocol with high performance
- One-tube PCR cleanup
- Complete sample recovery



*Made in India*



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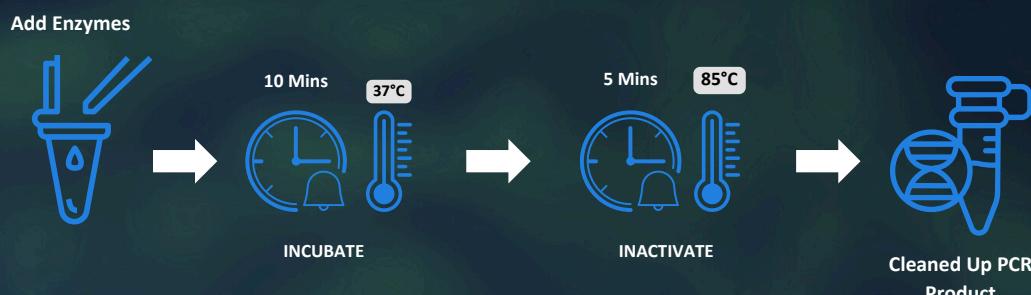
DTI brand product DTI ExoSAP reagent is designed to perform enzymatic cleanup of amplified PCR product enabling downstream applications, primarily Sanger sequencing. The product is a combination of enzymes Exonuclease and Shrimp alkaline phosphatase in optimal ratio[JA1] [SI2] currently available in two pack sizes of 200  $\mu$ l for 100 reactions and 1 ml (200  $\mu$ l x 5) for 500 reactions.

## Why is clean template important for Sanger Sequencing?

To achieve high-quality sequencing results, it is crucial that the PCR product is free from unused/excess primers and dNTPs in the PCR product that could interfere with the sequencing reactions and lead to high background. The enzyme Exonuclease in the DTI ExoSAP reagent degrades single-stranded DNA (including oligonucleotide primers), while enzyme Shrimp alkaline phosphatase degrades the Nucleotides to nucleosides and Inorganic phosphate. Both enzymes are subsequently removed by heat-inactivation and DNA is ready for sequencing

## Quick and easy protocol

- Add 2 $\mu$ l of DTI ExoSAP directly to 5  $\mu$ l PCR product and mix well.
- Incubate for 10 mins at 37°C to degrade remaining primers and nucleotides.
- Incubate for 5 min at 85°C to inactivate the enzymes.
- The cleaned PCR product can be used for sanger sequencing directly.



## Why Choose DTI Brand ?

*DTI is our new in-house brand, we are manufacturing products in India, where we can design products for you and deliver them to you at affordable prices.*



ISO 9001 certification



Quick Turn around time



Affordable Price



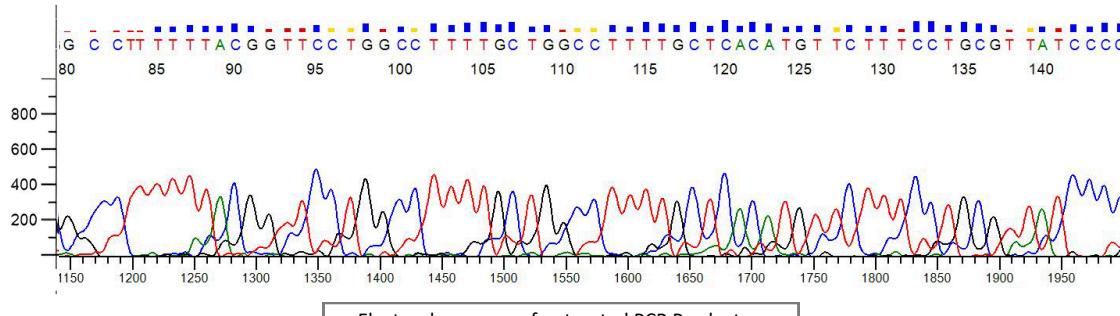
Strict temperature Control



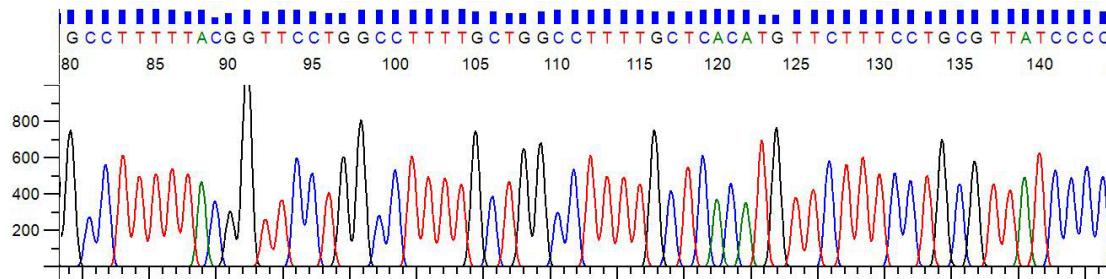
Product customization

## Comparison of Sanger Sequencing Quality: DTI ExoSAP Clean-up vs. Untreated PCR Product Sequencing

PCR product was subjected to enzymatic clean up by the DTI ExoSAP reagent and further subjected to sanger sequencing. This was compared against a PCR product that was directly sequenced without clean-up. The quality of base calling is better in the PCR product which was subjected to clean-up by DTI ExoSAP reagent as compared to the product that was directly sequenced. The electropherogram images of both samples is as follows:



Electropherogram of untreated PCR Product



Electropherogram of PCR product treated with DTI ExoSAP Reagent

High quality sequencing data after treatment with DTI ExoSAP reagent is obtained. Bars above sequence represent the quality value of the assigned base. An assigned base with QV = 20 has an error probability of 0.01. High-quality peaks generally have a QV of 20 or higher. Blue bars represent QV > 20, Yellow bars represent QV between 15-20 and Red bars represent QV < 15

| Product            | Cat. No.   | Pack size     |
|--------------------|------------|---------------|
| DTI ExoSAP Reagent | DT0502.100 | 100 Reactions |
|                    | DT0502.500 | 500 Reactions |

Want to know more?  
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