



DTI ExoSAP Reagent

Instruction Manual for Use



User Manual for DTI ExoSAP Reagent

Catalogue number: DT0502.100, DT0502.500

Kit for Research use purpose only

Manufactured by
DSS Takara Bio India Pvt Ltd
A-5 Mohan Co-operative, Industrial Estate,
Mathura Road, New Delhi, Delhi 110044

1) Product description:

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 currently available in two pack sizes of 200 µl for 100 reactions and 1 ml (200 µl x 5) for 500 reactions.

2) Principle:

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

3) Storage: -20°C

4) Components:

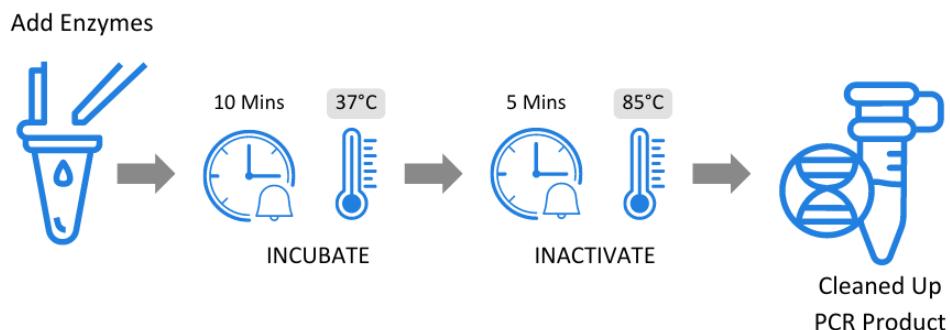
Components	Cat# DT0502.100 (volume)	Cat# DT0502.500 (Volume)
DTI ExoSAP Reagent	100 reactions (200 µl)	500 reactions (200 µl x 5)

5) Materials required but not provided:

Pipettes
Disposable filter tips
Incubator

6) Protocol:

1. Remove DTI ExoSAP Reagent from -20°C freezer and keep on ice throughout this procedure.
2. Add 2µl of DTI ExoSAP Reagent directly to 5 µl PCR product and mix well.
3. Incubate for 10 mins at 37°C to degrade remaining primers and nucleotides.
4. Incubate for 5 min at 85°C to inactivate the enzymes
5. PCR products are ready for downstream applications without any need for further processing

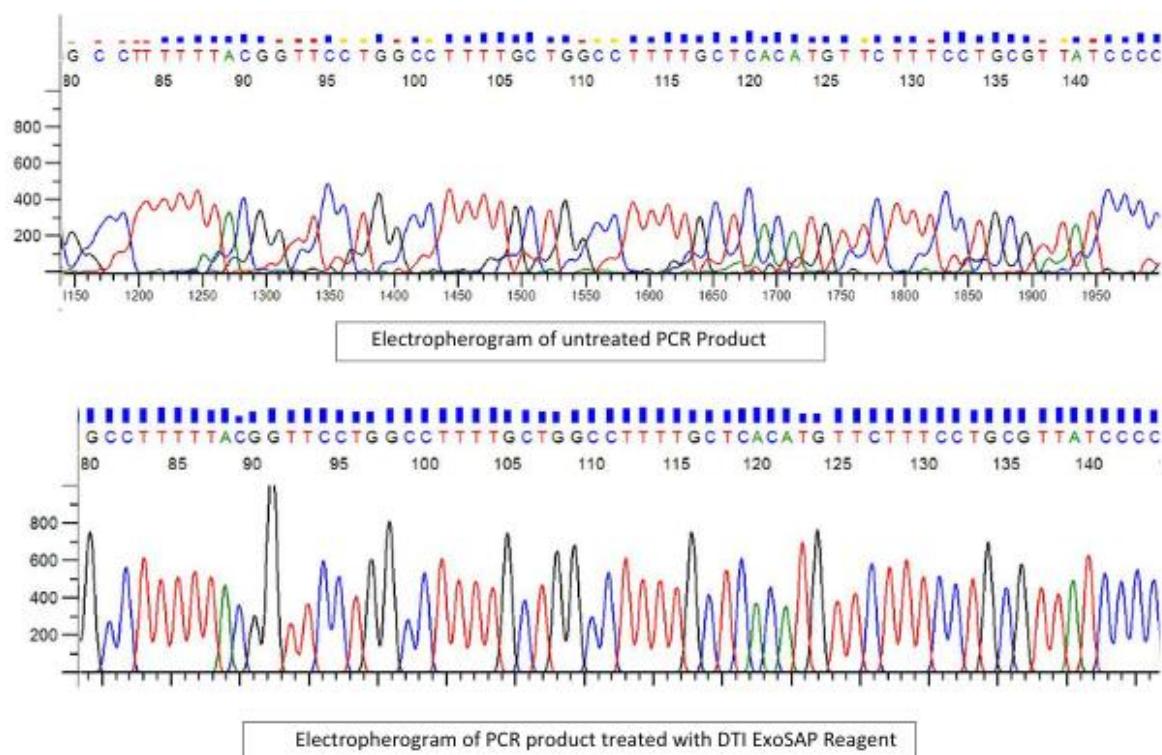


7) Quality Control data:

Please see the certificate of analysis (CoA) for each lot

8) Experimental sample:

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:

**9) Ordering information:**

Catalogue No.	Product Description	Pack Size
DT0502. 100	DTI ExoSAP Reagent	100 reactions
DT0502.500	DTI ExoSAP Reagent	500 reactions

Visit: dsstakarabio.com/pages/dti-exosap-reagent for more detailed product information.

For more information contact directly below;

Address: DSS Takara Bio India Pvt Ltd, A-5 Mohan Co-operative, Industrial Estate, Mathura Road, New Delhi, Delhi 110044

Email: enquiries@dsstakarabio.com

Toll-Free number: 1800-212-4922

Description of Symbol Used:

REF Catalogue number

LOT Batch Code

 Date of Manufacturing

 Use-by-date

 Contains sufficient for <n> tests