

HT ExoSAP-IT® *Fast* High-Throughput PCR Product Cleanup

From the leader in enzymatic PCR cleanup comes a faster option when using liquid handling platforms. HT ExoSAP-IT *Fast* for High-Throughput PCR Product Cleanup is specifically designed for the unique requirements of high-throughput, automated platforms and multi-channel pipettes.

Like the original ExoSAP-IT formulation, HT ExoSAP-IT *Fast* reagent is a mixture of Exonuclease I and Shrimp Alkaline Phosphatase for the enzymatic removal of excess primers and dNTPs following a PCR reaction. When PCR amplification is complete, any unconsumed dNTPs and primers remaining in the PCR product mixture will interfere with downstream applications. The ExoSAP-IT products remove these contaminants. HT ExoSAP-IT *Fast* reagent is scalable for PCR cleanup from a single tube up to a 384-well plate PCR reaction.

Why HT ExoSAP-IT *Fast* reagent?

- 14 minute cleanup protocol
- 100% recovery and only 5 µl of PCR product needed
- One simple pipetting step
- Formulated and formatted for automated platforms and multi-channel pipettes
- Stable at 4° C for one month and at room temperature for two days

Adding to our family of patented ExoSAP-IT products, HT ExoSAP-IT *Fast* reagent quickly provides accurate and consistent results in high-throughput applications. HT ExoSAP-IT *Fast* reagent is over 50% faster than standard HT ExoSAP-IT reagent with a 14 minute total protocol time. Add it directly to the PCR

product and incubate at 37°C for just 7 minutes. After PCR treatment, inactivate it by simply heating to 80°C for another 7 minutes (Fig. 1).

This product is ideal for high volume labs that require quick sample turn around. With such a brief and simple protocol, proper sample cleanup never needs to be sacrificed due to processing or instrument time constraints. Ensure the highest quality Sanger sequencing results while keeping sample processing moving quickly and efficiently (Fig. 2).

HT ExoSAP-IT *Fast* reagent has a decreased viscosity yet maintains the same convenience and stability that you have come to expect from the ExoSAP-IT products. As with all products in the ExoSAP-IT product line, HT ExoSAP-IT *Fast* reagent allows PCR cleanup with a single pipetting step. HT ExoSAP-IT *Fast* reagent is scalable for PCR cleanup from a single tube up to a 384-well plate PCR reaction. PCR products cleaned up with HT ExoSAP-IT *Fast* reagent prior to automated sequencing displayed superior sequencing results compared to the untreated equivalent (Fig. 3).

HT ExoSAP-IT *Fast* reagent displayed excellent stability in all formats tested including vials, 8-tube strips, and 96-well plates. With excellent stability and a greater than 50% faster protocol, HT ExoSAP-IT *Fast* reagent is ideal for high-throughput assays where robotic platforms are utilized and large volumes of samples are processed in successive testing runs.

Collectively, these results clearly demonstrate the effectiveness of HT ExoSAP-IT *Fast* reagent to ensure the highest quality sequences while keeping sample processing moving quickly and efficiently.

Fig. 1. HT ExoSAP-IT *Fast* High-Throughput PCR Product Cleanup overview

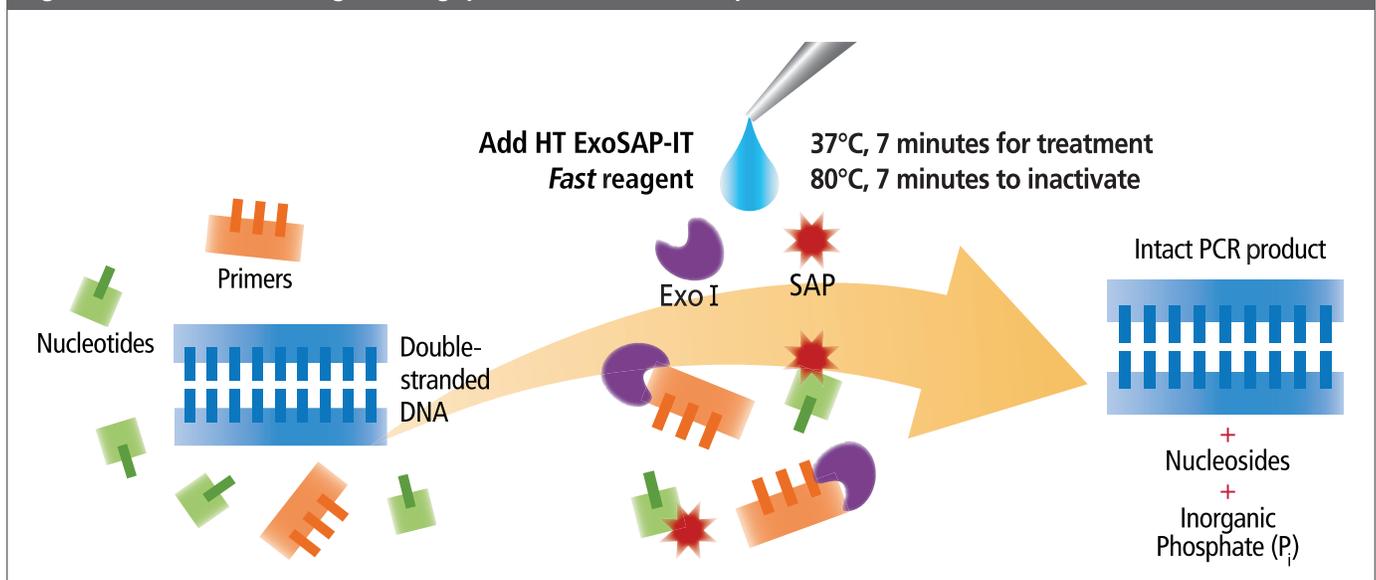


Fig. 2. Hands-on vs. hands-off time savings

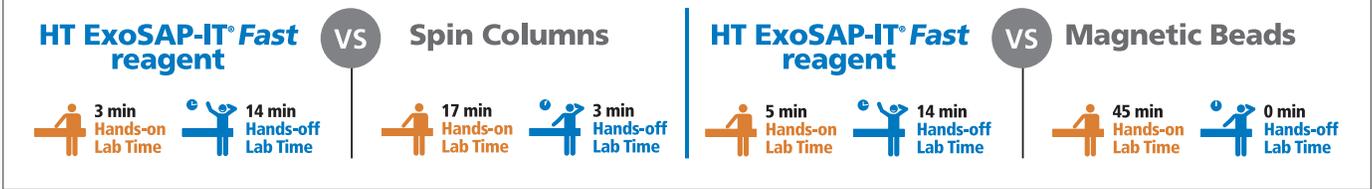
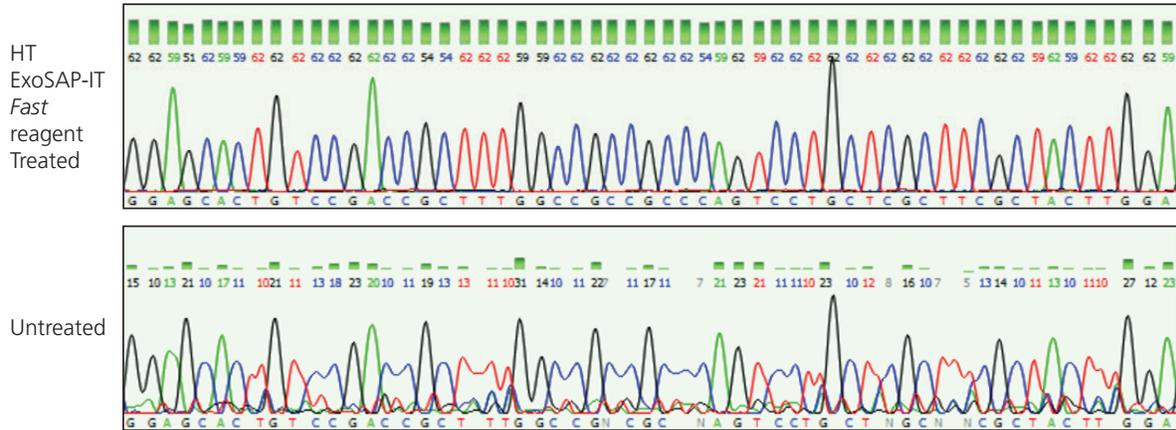


Fig. 3. High quality sequencing data after treatment with HT ExoSAP-IT *Fast* reagent



Sequencing of a 1 kb PCR product cleaned with HT ExoSAP-IT *Fast* reagent (top) or untreated (bottom). HT ExoSAP-IT *Fast* treatment prior to sequencing eliminates miscalls and improves sequencing quality scores (numbers and bars above sequence; >50 , probability of error ≤ 0.001). Sequence shown is within the first 150 bases.

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Product code	Pack size
78595 20 rxn	20 reactions
78595 1 ea	480 reactions × 8-tube strip
78595 1 pk	5,760 reactions (12 × 8-tube strips in a tray)
78595 4 pk	23,040 reactions (48 × 8-tube strips in a tray)
78595 1000 rxn	1,000 reactions (2 ml)
78595 5000 rxn	5,000 reactions (10 ml)
78595 1 pl	1,920 reactions (96-well plate, 40 μ l per well)
78595 6 pl	11,520 reactions (6 × 96-well plate, 40 μ l per well)

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Affymetrix, Inc.

USB[®] Products

26111 Miles Road
Cleveland, Ohio 44128
Tel: 800-321-9322 | 216-765-5000
Fax: 800-535-0898 | 216-464-5075
USBcustomerserv@affymetrix.com
usb.affymetrix.com

Affymetrix UK Ltd.

USB[®] Products

Voyager, Mercury Park,
Wycombe Lane, Wooburn Green,
High Wycombe HP10 0HH, UK
Tel: +44 (0)1628 55 2600
Fax: +44 (0)1628 55 2675
USBcustomerserveurope@affymetrix.com

Affymetrix Pte Ltd.

USB[®] Products

7 Gul Circle, #2M-01
Keppel Logistics Building
Singapore 629563
Tel: +65 63957310
Fax: +65 63957300
USBcustomerserv@affymetrix.com