

PCR Clean-up in ONE Minute!

Diffinity Genomics has developed an innovative technology to rapidly remove undesirable impurities from PCR products!

Diffinity® RapidTip effectively removes dNTPs, primers, and primer-dimers, while providing up to 90% recovery of DNA amplicons ranging in length from 150bp to 10Kb. It dramatically reduces the amount of time to clean and prepare PCR products for use in downstream applications, such as Sanger sequencing, SNP analysis, and microarray printing.

Diffinity RapidTip® — it's all in the Tip!

One minute PCR cleanup in a single step!
No bind-wash-elute, enzymes, or magnetic beads!

The Diffinity RapidTip functionalized pipette Tip contains everything you need for PCR cleanup prior to Sanger sequencing. The Tip is filled with our proprietary adsorption resin that has a differential affinity for PCR components. The impurities (e.g., single-stranded primers and nucleotides used in the PCR process) are removed from the solution as it enters the RapidTip. Dispensing the solution yields cleaned, high-quality DNA ready for use in your next application. No capital equipment, reagents or buffers, or enzymes — **all you need is a pipettor.**

Protocol — only a single cleanup step!

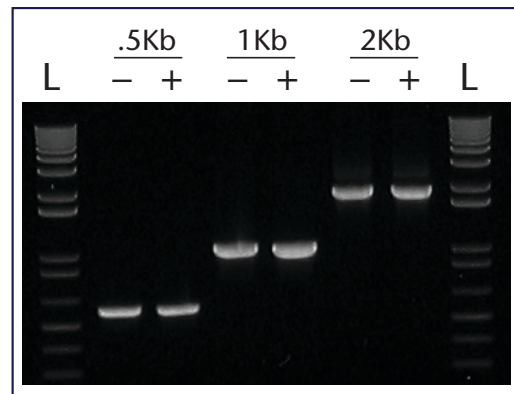
Materials & Equipment

- Diffinity RapidTips — pre-packed with our proprietary resin and ready to use out of the box.
- A pipettor.

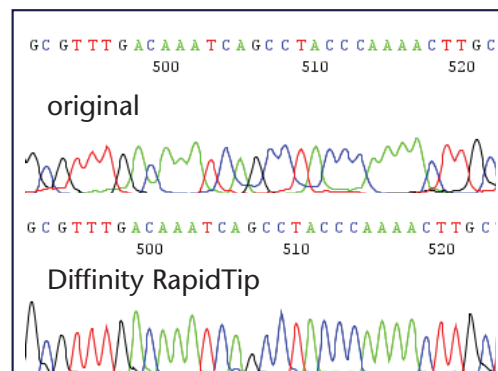
Method

- Attach one or more of our RapidTips to a universal pipettor (single or multi-channel).
- Aspirate PCR product into the RapidTip and pipette up and down for approximately one minute.
- Dispense cleaned PCR product into a tube or well and dispose of the Tip(s) in normal laboratory trash — that's it!

Results



Diffinity RapidTip cleanup has excellent yield. Equal volumes of untreated (-) and Diffinity RapidTip treated (+) PCR product (.5Kb, 1Kb, 2Kb) were run on a 1% agarose gel alongside Invitrogen 1Kb Plus ladder (L) and labeled with SYBR® Safe.



Diffinity RapidTip cleanup improves sequence quality. Sequence electropherograms show improved peak quality and lower background in Diffinity RapidTip cleaned samples as compared to original samples.

Features and Benefits of Diffinity RapidTip

Excellent Yield

- Recovers up to 90% of high-quality DNA ready for use in subsequent applications.

One Minute, One Step

- Extremely fast and efficient process to rapidly recover cleaned DNA.

Cost Effective

- No capital equipment (e.g., centrifuge, magnetic extractor, vacuum manifold), extra plasticware, or liquids are required. Less labor time required due to simple protocol.

No Bind-Wash-Elute Steps

- Eliminates use of large amounts of reagents and time-consuming, tedious multi-step protocols.

Large Range of Fragment Length

- Yields cleaned DNA fragments of 150bp to 10Kb.

Effective Cleanup

- Removes up to 90% of nucleotides, primers, and primer-dimers providing a cleaned PCR product.

Easy to Use

- Single-step protocol requires little to no training of lab personnel.

Environment Friendly

- Waste is limited to the RapidTip. No extra materials, tips, columns, buffers, or reagents required to clean PCR product.

Seamless Workflow

- Uses standard pipettor, so no changes are needed to your current lab workflows. A single RT025 Tip will clean a PCR sample volume of 20–30µl. A single RT050 will clean a sample volume of 45–55µl.

Catalog Number	Product (Compatible with manual and automated universal pipettors)
RT025-096	Diffinity RapidTip25 for PCR Cleanup (One box of 96 Tips)
RT050-096	Diffinity RapidTip50 for PCR Cleanup (One box of 96 Tips)

Contact Information

Product Orders: www.diffinitygenomics.com/order.asp

Customer Service: 800-624-4725 or orders@chiraltech.com

Technical Support: questions@chiraltech.com

Web Resources: www.diffinitygenomics.com
www.chiraltech.com

DIFFINITY
RapidTip[®]
For PCR Cleanup