

DNA

Clean-up & Purification Kits



Easy application and time-saving
kits for **DNA** fragment purification

DNA Fragment Purification Kits

DNA fragment purification is an essential step in a variety of downstream applications, including DNA sequencing, cloning, PCR amplification and gene expression analysis. Our cleanup kits provide rapid procedures for purifying high-quality, pure DNA samples in routine molecular biology applications.

Invitex Diagnostics offers rapid procedures for routine molecular biology applications. Choose from two different kits, suitable for your laboratory application:

MSB® Spin PCRapace: clean-up of PCR and enzymatic reactions

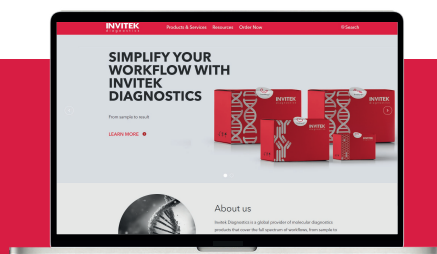
InviSorb® Fragment CleanUp: clean-up of PCR and enzymatic reactions as well as DNA fragments from agarose gels

Highlights



- **Fast:** Only 7 min for clean-up (2-step bind-and-elute protocol) or 20 min for agarose gel purification
- **Starting volume:** up to 100 µl reaction mixture or up to 300 mg agarose gel pieces (TAE or TBE buffer)
- Suitable for the up-concentration of samples, using a minimal elution volume of 10 µl
- 95% recovery for fragment sizes of 80 bp – 30 kb

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AND SEE WHAT'S IN FOR YOU



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SIMPLIFY YOUR WORKFLOW WITH INVITEK DIAGNOSTICS

MSB® Spin PCRapace

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The MSB® Spin PCRapace is used for clean-up of PCR and other enzymatic reactions like e.g. restriction digestions and ligations. The kit uses a non-chaotropic Minimal Salt Binding (MSB®) chemistry, which allows for a rapid 2-step purification protocol that does not require additional washing steps (Figure 1).



Fast DNA purification in 2 steps bind-and-elute protocol

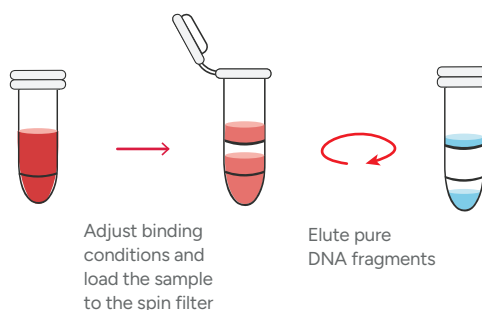


Figure 1

DNA fragments are purified in only 7 minutes in an easy, two-step protocol. Additional washing steps are not required.

The removal of dNTPs, primers, enzymes, dyes, additives and salts improves molecular biology techniques and applications. For example, results for sequencing reactions can be significantly improved when the amplification product is purified, as shown in figure 2.

Efficient dye removal from cycle sequencing reactions

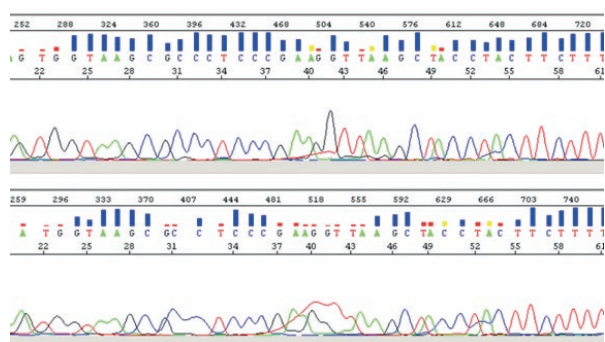


Figure 2

100 µl PCR reaction mixture were purified using the MSB® Spin PCRapace. Sequencing was done with an ABI 3130 Genetic Analyzer

A: Sequencing after clean-up with MSB® Spin PCRapace

B: Sequencing without dye removal

The use of the MSB® Spin PCRapace shows a significant improvement in sequencing result

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InviSorb® Fragment CleanUp

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Like the MSB® Spin PCRapace the InviSorb® Fragment CleanUp can be used for clean-up of PCR and other enzymatic reactions. In addition, the InviSorb® Fragment CleanUp can be used for the purification of DNA fragments from agarose gels. DNA fragments from 80 bp - 30 kb can be purified from standard or low melting agarose gels in TAE and TBE buffers with high final DNA concentrations. Another possible application is the up-concentration of DNA fragments, figure 3 shows the high yield of DNA after sample clean-up.

High recovery with low elution volumes

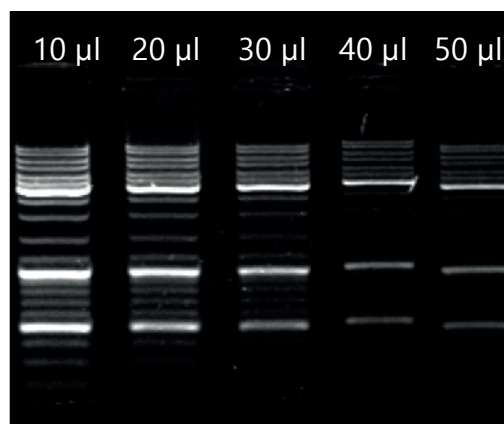


Figure 3

DNA fragment up-concentration, the GeneRuler™ DNA Ladder (Fermentas) was purified using the InviSorb® Fragment CleanUp according to the standard protocol. Various elution volumes ranging from 10 µl to 50 µl were used. For analysis, 5 µl of eluate was loaded onto a 1% TAE agarose gel. The result shows the high recovery of DNA fragments and up-concentration in small elution volumes.

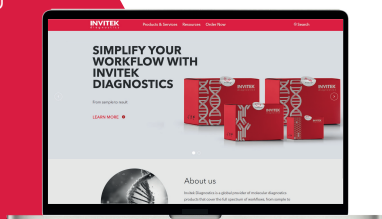
Ordering Information

Product name	Package size	Catalogue number
MSB® Spin PCRapace	250 preps	1020220300
	500 preps	1020220400
Invisorb® Fragment CleanUp	250 preps	1020300300

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