

## PCR *quick-spin*™ PCR Product Purification Kit

**PCRquick-spin**

### Description

The PCRquick-spin™ Kit is designed to purify products directly from a polymerase chain reaction. PCR products are commonly purified to remove nucleotides, dNTPs, enzymes, primers, mineral oil, salts, Etidium bromide, dyes, detergents and other impurities using the silica-membrane technology. In addition, silica-gel membrane can bind up to 15 µg DNA in high-salt buffer and elute the DNA in low-salt buffer. The procedure is very simple, just bind-wash-elute step within <15 minutes. Purified DNA is ready for immediate use in most applications such as automated and manual DNA sequencing, nested PCR amplification, DNA labeling, restriction analysis, ligation and cloning. (Successfully purify DNA fragments from 50 bp to 10 kb, proven purity made possible using silica-based technology.)

### Characteristics

- High yield and quality.
- Saving the time - takes only 20 minutes to extract DNA fragment from agarose gel.
- Minimizes DNA loss – recovers DNA fragment from agarose gel without solvent extraction
- precipitation or other steps that can lead to lost or degradation of DNA.
- Lab safety – does no use hazardous organic solvent.

**Format :** Spin column with 2 ml collection tubes

**Column capacity:** 800 µl

**DNA binding capacity:** 40 µg

**Throughput:** 1-24 samples

**Prep. time:** <30 minutes

**Recovery:** 90-95% depending on elution volume

**Elution volume:** 20-50 µl

### Applications

- Microarray
- Restriction enzyme digestion
- Labeling
- PCR

### Storage Condition

Store at RT



### Purification Yield

The different fragment length

Fragment length	Recovery
50 bp ~ 200 bp	80%
200 bp ~ 4 kb	95%
4 kb ~ 10 kb	90%
> 10 kb	80%

The amount of DNA

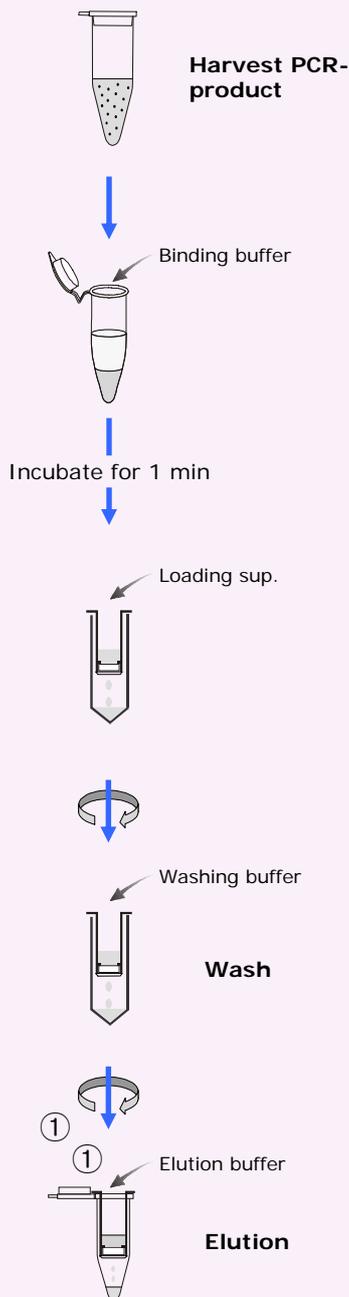
Amount of DNA	Recovery
5 ~ 10 µg	80%
10 ~ 30 µg	95%
> 30 µg	75%

Product	Size	Cat. No.
PCR <i>quick-spin</i> ™ PCR Product Purification Kit	250 col.	17202
	500 col.	17202M
	1000 col.	17202L

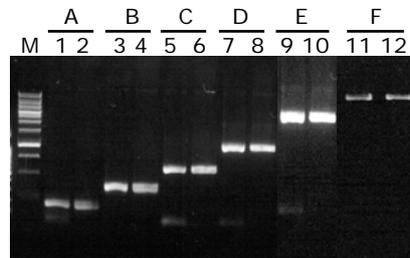
Contents	No.	Size (250 col.)
Binding buffer	①	150 ml
Washing buffer (concentrate)	②	50 ml
Elution buffer	③	20 ml
Columns (Blue)		250 col.
Collection Tubes		250 tubes

## PCRquick-spin™ PCR Product Purification Kit

### Simple Protocol



### Recovery of DNA from different PCR product size



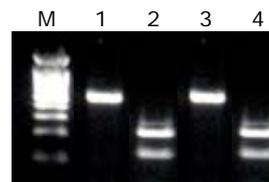
**Fig. DNA fragments extraction with the PCRquick-spin™ PCR Product Purification Kit**

**PCR product size :**

A, 131 bp; B, 570 bp; C, 830 bp; D, 1.3 kb; E, 4.5 kb; F, 10 kb  
Lane M, DNA Marker;

Lane 1, 3, 5, 7, 9, 11, before purification with PCRquick-spin™ PCR Product Purification Kit;  
Lane 2, 4, 6, 8, 10, 12, after purification with PCRquick-spin™ PCR Product Purification Kit

### Enzyme digestion result

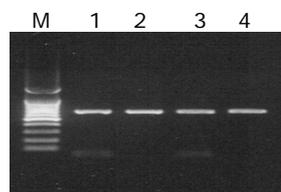


**Fig. 3 kb PCR product was extracted using PCRquick-spin™ PCR Product Purification Kit and then digested with *EcoRI*.**

The digestions were performed at 37°C for 1 hr with each enzymes. And then result was analyzed in gel electrophoresis.  
Lane M, DNA Marker;

Lane 1, 3, undigested PCR product, extracted using PCRquick-spin™ PCR Product Purification Kit;  
Lane 2, 4, digested PCR product

### Comparison of DNA yield



**Fig. Comparison of different company**

Lane M, Marker DNA;  
Lane 1, Control (not purify);  
Lane 2, iNtRON;  
Lane 3, Supplier A;  
Lane 4, Supplier B