

# DNA Clean Up

## Up to 90% Recovery from Gel slice

# HiYield™ Gel/PCR DNA Fragments Extraction Kit

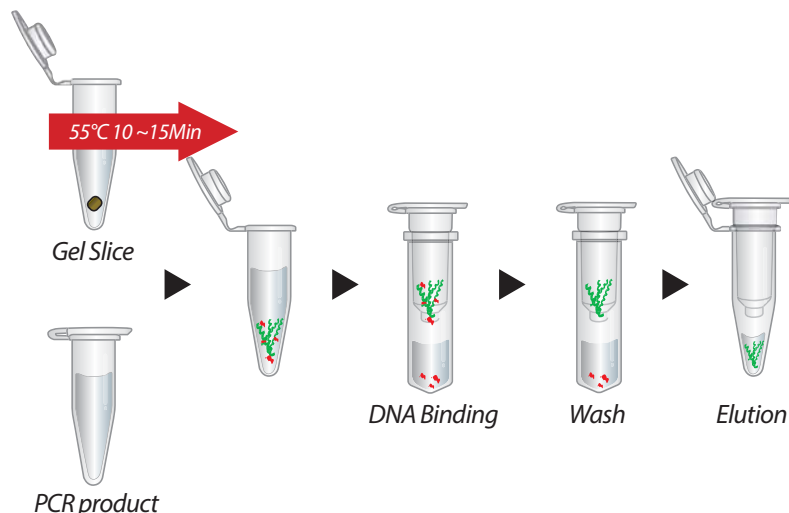
The HiYield™ Gel/PCR DNA Fragments Extraction Kit is designed to recover or concentrate DNA fragments (50bp-10Kb) from agarose gels, PCR or other enzymatic reactions. The unique dual purpose application and high yield DNA/minicolumn make this kit an exceptional value. The method uses a chaotropic salt, guanidine thiocyanate to dissolve agarose gel and denature enzymes. DNA fragments in chaotropic salt solution bind to the glass fiber matrix of the spin column. Following washing off of contaminants, the purified DNA fragments are eluted by addition of low salt elution buffer or water. Salts, enzymes and unincorporated nucleotides are effectively removed from reaction mixtures without phenol extraction or alcohol precipitation.

### Applications

Unique dual purpose application,  
DNA Sequencing,  
DNA library Screening and Analysis,  
Restriction Digestion,  
Preparation of PCR probes for microarrays,  
Ligation and Transformation.

### Protocol

<b>Sample:</b>	200 mg of agarose gel, 100µl of PCR solution
<b>Gel Recovery:</b>	70-80%
<b>PCR Recovery:</b>	80-90%
<b>Elution Volume:</b>	15~40µl
<b>Preparation time:</b>	20 min



## Storage and Stability

This kit should be stored at room temperature.

## Reference

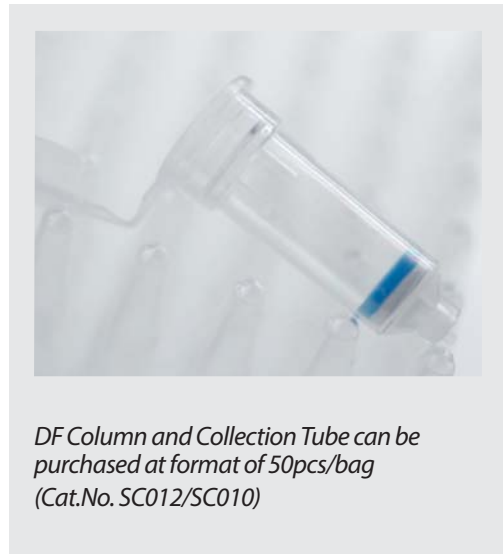
Vogelstein, B., and Gillespie, D. (1979) Proc. Natl. Acad. Sci. USA 76, 615.

### Cat.No.YDF100

100 mini preps / kit  
DF Buffer: 80ml (B049)  
Wash Buffer (concentrated): 25ml  
Elution Buffer: 10ml  
2ml Collection Tube: 100pcs (SC010)  
DF Column: 100pcs (SC012)

### Cat.No.YDF300

300 mini preps / kit  
DF Buffer: 200ml (B050)  
Wash Buffer (concentrated): 40ml  
Elution Buffer: 30ml  
2ml Collection Tube: 300pcs  
DF Column: 300pcs



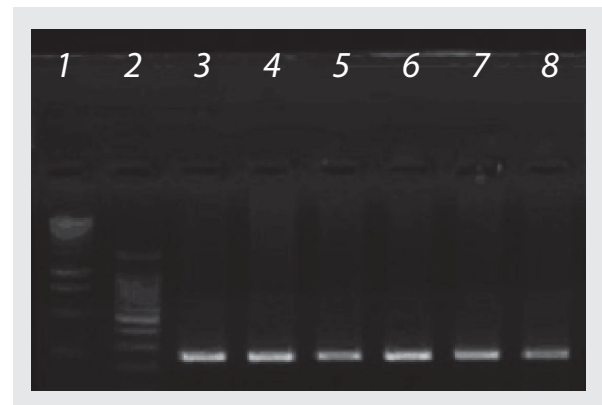
DF Column and Collection Tube can be purchased at format of 50pcs/bag (Cat.No. SC012/SC010)

## Performance

### Singapore National University

#### Comparison:

HiYield™ Gel/PCR Kit with Brand Q Gel Extraction Kit



### RBC Bioscience Labs

Lane	Total DNA	A280/A260
Lane 1: 1kb marker		
Lane 2: 100bp marker		
Lane 3: HiYield Gel/PCR	1.01	1.79
Lane 4: HiYield Gel/PCR	0.99	1.81
Lane 5: HiYield Gel/PCR	0.90	1.78
Lane 6: Brand Q	0.98	1.80
Lane 7: Brand Q	0.92	1.76
Lane 8: Brand Q	0.87	1.79



Quality Nucleic Acid Purification Systems

**RBC Real Genomics** DNA/RNA Purification

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