

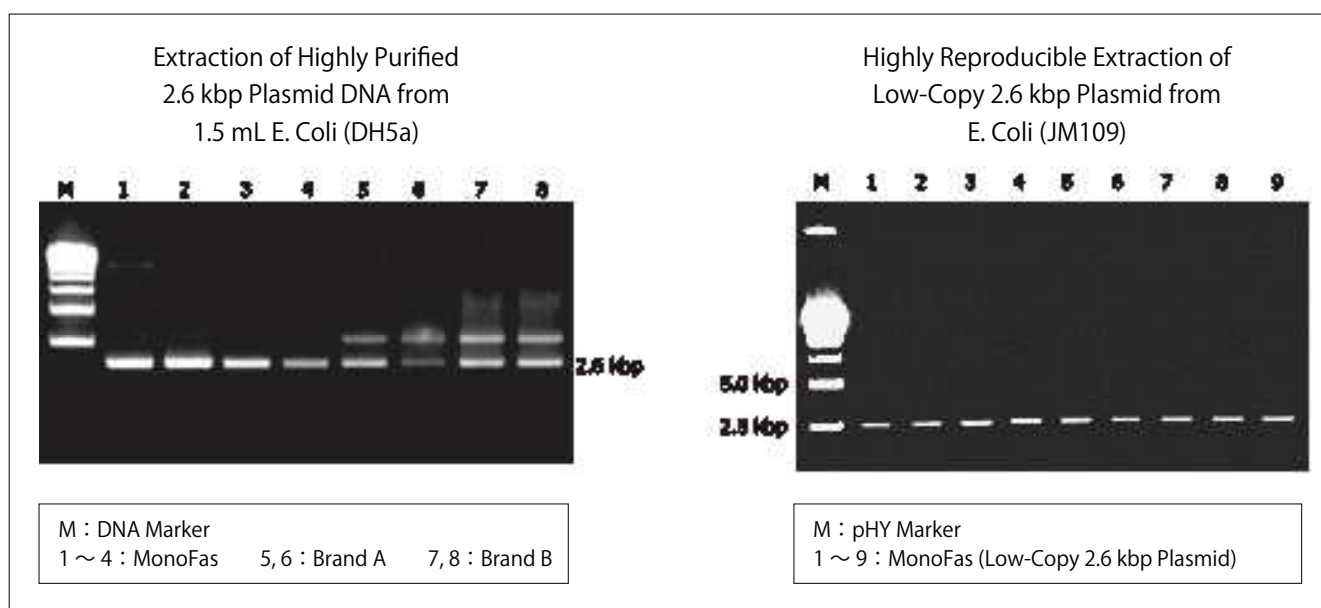
■ MonoFas DNA Purification Kit III

Plasmid DNA Extraction from E.coli

MonoFas Plasmid Extraction Kit III is designed to purify plasmid DNA from E. Coli cultures. The extracted plasmid DNA can be used without further purification for sequence analysis, restriction digestion, cloning/ligation, etc.

Features

- Rapid Plasma Purification in 8 minutes.
- Highly Purified Plasmid DNA.
- Wide Variety of Functional Groups
- BAC Clone Purification can also be performed.
- Stable Recovery Rate



MonoFas DNA Purification Kit III

Description	Qty.	Cat.No.
MonoFas DNA Purification Kit3, EXPORT	50 pcs	5010-21533
	100 pcs	5010-21534
	250 pcs	5010-21535

SAMPLE PREPARATION

LIFE SCIENCE

LC ACCESSORIES

AIR SAMPLING

GC CAPILLARY COLUMNS

GC PACKED COLUMNS

GC ACCESSORIES

CELLS

VIALS

MonoFas DNA Purification Kit I

Description	Qty.	Cat.No.
MonoFas DNA Purification Kit1, EXPORT	50 pcs	5010-21530
	100 pcs	5010-21531
	250 pcs	5010-21532



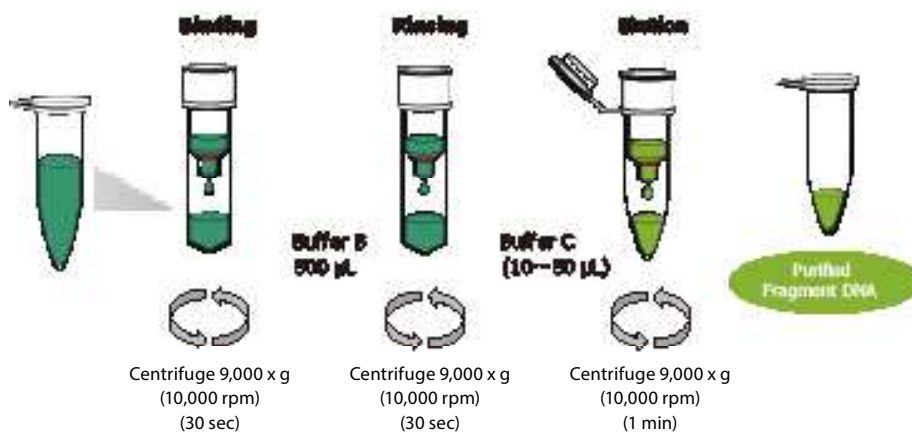
Specifications

Description	Purification from PCR products	Extraction from agarose gel
Time	4 mins	9 mins
Maximum DNA Binding Amount	< 10 µg	< 10 µg
Maximum Agarose Gel Throughput	☒	< 1 g
Minimum Elution Amount	10 µL	10 µL
Column Volume	1 mL	1 mL
Processable DNA Range	35 bp - 35 kbp	35 bp - 35 kbp
Recovery Rate	> 85 % (100 bp - 5 kbp)	> 80 % (100 bp - 5 kbp)
	> 60 % (5 kbp - 35 kbp)	> 50 % (5 kbp - 35 kbp)
Primer Removal Percentage	95 %	☒

Typical Protocol using MonoFas DNA Purification Kit I

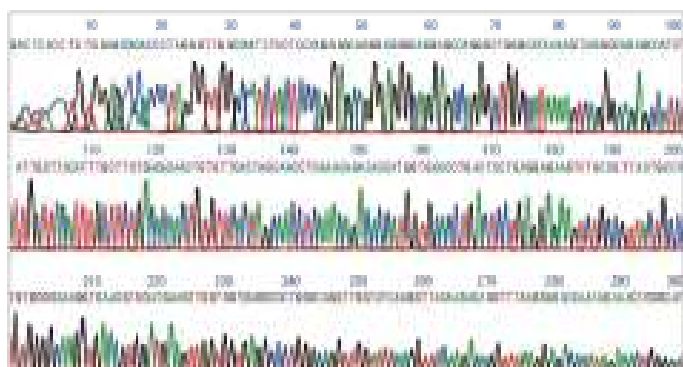
1. Purification of PCR products
Load the PCR products and Buffer A (10 times the volume of PCR products) into the spin column.

2. Extraction from agarose gel
Add the Buffer A (same volume as the agarose gel), dissolve for 5 mins at 60 °C then load it into the spin column.



Accurate Sequence Analysis

Greater than 98 % precision by fluorescent sequence method and more than 500 bases can be analyzed.



Condition : Cycle sequencing method with Big Dye Terminator v3.1 manufactured by ABI
Model : ABI 3730 Genetic Analyzer

Easy Centrifuge Operation



Steady Rotation
> 6,200 rpm
(+/- 20 %)

Constant Centrifuge Acceleration
> 2,000 x g
(19,600 m/s²)

2 mins : DNA purification from PCR products
7 mins : DNA purification from agarose gel

■ MonoFas DNA Purification Kit ☒

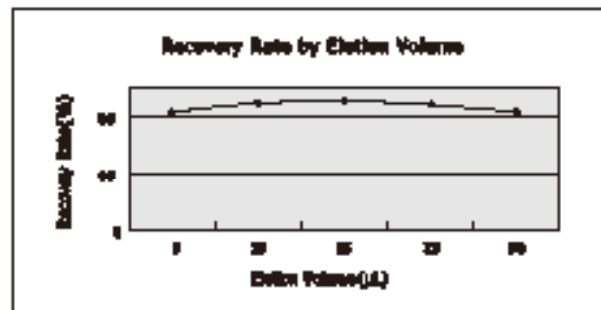
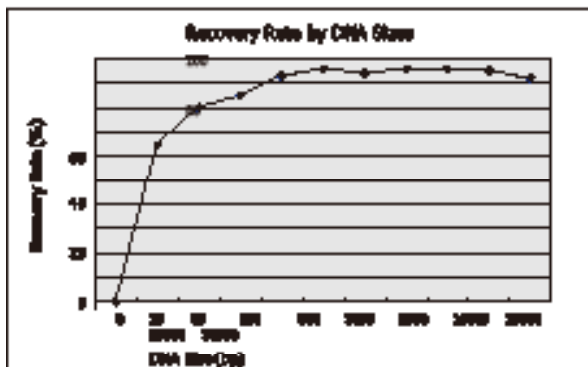
DNA Extraction & Purification

MonoFas DNA Purification Kit I purifies DNA from PCR products and agarose gels. Purified DNA can be used for sequencing, cloning/ligation, restriction digests, etc.

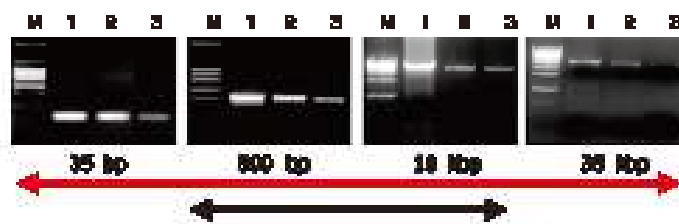
Features

- Multiple Roles – Purifies DNA from PCR matrices or agarose gels.
- Rapid purification in about 4 minutes.
- High recovery rates even from sample volumes as low as 10 μ L.
- Purify DNA fragments from 35 bp to 35 kbp.

High Recovery from Trace Volume Samples



Purify DNA fragments from 35 bp up to 35 kbp



M: pHY Marker 1 : PCR Products
 2 : After purification by MonoFas
 3 : After purification by commercially available products

↔ MonoFas
 ↔ Commercially available products

Large Quantities of Agarose Gels can be Processed



MonoFas routinely extracts DNA from up to 1 g of agarose gel at once.