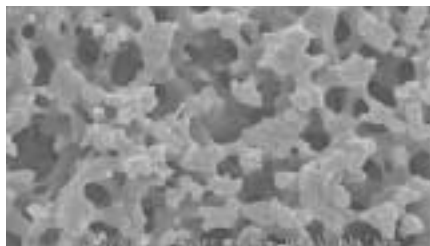




# MonoFas<sup>®</sup> DNA Purification Kit I

A new method for purifying DNA by monolith technology



Monolith Silica

● Fast procedure and easy handling

DNA purification from PCR samples in 4 minutes.  
DNA purification from agarose gels in 9 minutes.

● Clean up with high recoveries

Efficient enzymes/primers removal ratio of 99.5%.  
Sodium-free eluent.

● 10uL minimal elution volume

● High samplet capacity

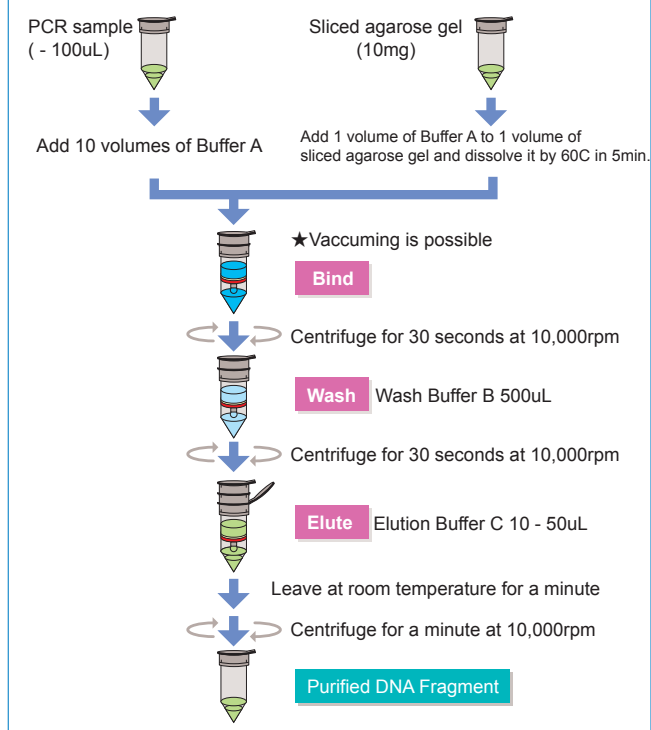
For PCR purification, 10 - 100uL can be applied.  
For agarose gels, 1,000mg can be applied.

● DNA size range: 35bp - 35,000bp

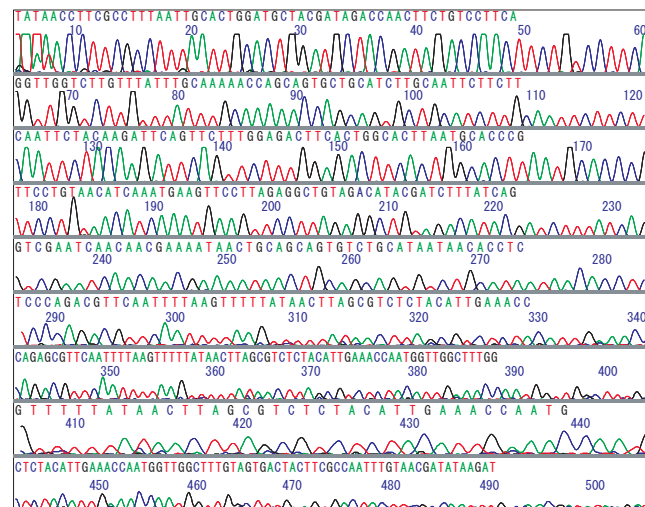
● This kit can be used for the DNA purification from both PCR and an agarose gel extraction

Description	Cat.No.	Quantity	Price
MonoFas <sup>®</sup> DNA Purification Kit I	5010-21500	50EA. / Set (For 50 analytes)	
	5010-21501	100EA. / Set (For 100 analytes)	

Simple!!! Only 3 steps

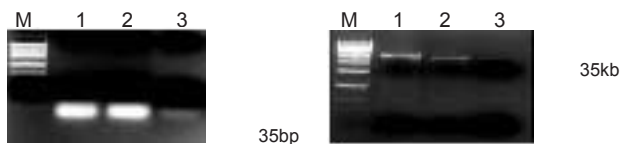


Enables an accurate fluorescent sequencing analysis



Sample: □ A PCR sample that was purified by using the MonoFas DNA Purification Kit I  
Method: □ Direct sequencing analysis by Takara Biosystems DNA Analyzer

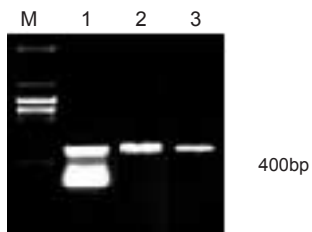
**Adaptive sizes are from 35bp - 35kb**



M:Marker  
1:PCR sample  
2:Purified 1 by MonoFas  
3:Purified 1 by a product of company A

Small size □ 35bp  
Big size □ 35kb  
Both sizes can be purified

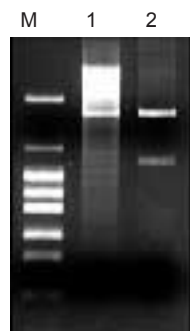
**Smooth extraction of agarose gel**



M:Marker  
1:PCR sample  
2:Purified the extracted DNA from agarose gel by MonoFas  
3:Purified the extracted DNA from agarose gel by a product of company A

Extraction in 9 minutes  
Smooth extraction  
High recovery rate

**Effective ligation**



M:Marker  
1:Plasmid vector  
2:Process a restriction enzyme on the plasmid vector

Purified the targeted gene (ARL1) by MonoFas  
Ligation on the plasmid vector  
↓  
By processing the restriction enzyme, confirm the gene insertion

**Pure elution buffer**

Sample ①.PCR sample (400bp)  
②.Purified ① by MonoFas  
③.Purified ① by a product of company A

Sample ①、②、③ were analyzed by ion-exchange chromatography.(Fig1.)  
Fig2, 3 shows the area in graph.

Fig1:Comparison of cleaning efficiency by ion-exchange chromatography. CIM DEAE DISK (column) was used

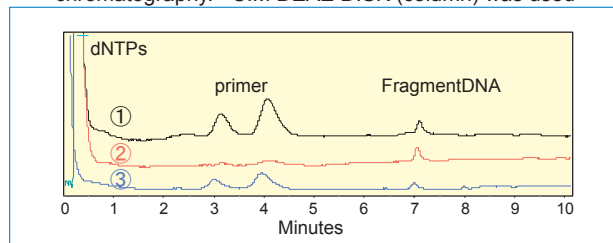


Fig2:Recovery rate of DNA fragment

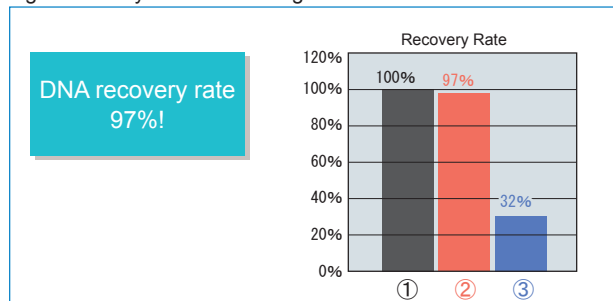
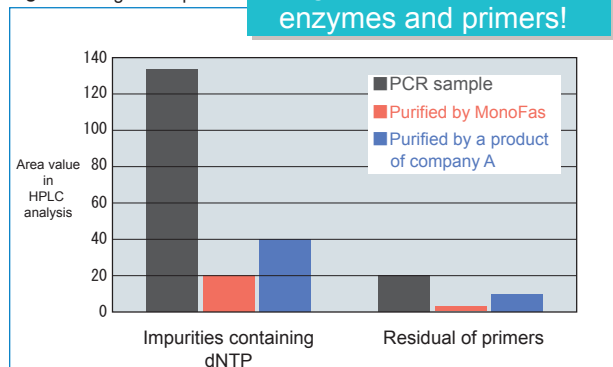


Fig3:Readings of impurities



"Licensed by Merck KGaA" by "based on monolithic technology, Merck KGaA, Darmstadt, Germany"



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