

FFPE DNA Purification Kit

Norgen's FFPE DNA Purification Kit provides a rapid method for the isolation and purification of genomic DNA from formalin-fixed paraffin-embedded (FFPE) tissue samples. Using formalin to fix tissues leads to crosslinking of the nucleic acids and proteins, and the process of embedding the tissue samples can also lead to fragmentation of the nucleic acids over time. Norgen's FFPE DNA Purification Kit provides conditions that allow for the partial reversing of the formalin modifications, resulting in a high quality and yield of nucleic acids. With Norgen's FFPE DNA Purification Kit, the purification is based on spin column chromatography using Norgen's proprietary resin as the separation matrix. The DNA is preferentially purified from other cellular components without the use of phenol or chloroform. The purified genomic DNA is of the highest integrity, and can be used in a number of downstream applications including qPCR, mutation screening, microarray analyses, sequencing, Southern blotting and SNP analysis.



Kit Specifications			
Column Binding Capacity (gDNA)	15 µg	Maximum Amount of Starting Material:	
Maximum Column Loading Volume	650 µL	Paraffin Slices	5 slices 20 µm thick
Size of DNA Purified	All sizes > 80 bp	Unsectioned Block	25 mg

FFPE DNA Purification Kit Benefits

High quality and integrity of the isolated DNA	The purified DNA is of the highest quality and integrity, and can be used in any sensitive downstream applications.
High yields	Norgen's FFPE DNA Purification Kit allows for the purification of high yields of total DNA.
No phenol:chloroform extractions	DNA is isolated from FFPE tissue samples without the use of harmful chemicals such as phenol or chloroform.
Rapid procedure	Isolate DNA from FFPE tissue sections using a rapid spin column format.

FFPE DNA Purification Kit

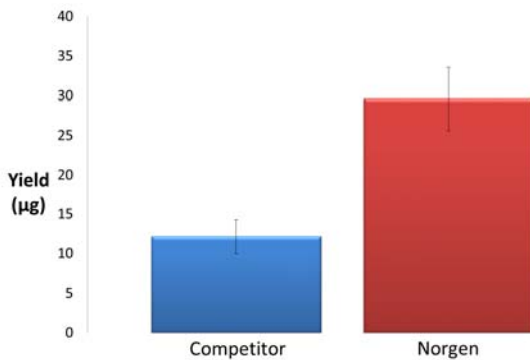


Figure 1. Comparison of Total DNA Yield Isolated by Norgen's Kit and a Leading Competitor FFPE DNA Purification Kits. DNA was isolated from 10 mg of FFPE kidney blocks. DNA concentrations were measured using the NanoVue spectrophotometer (GE Healthcare). Norgen's kit was found to have a much higher DNA yield, compared to the competitor kit.

FFPE DNA Purification Kit Contents

1. Digestion Buffer
2. Binding Solution
3. Wash Solution
4. RNA Elution Buffer
5. Proteinase K
6. Spin Columns
7. Collection Tubes
8. Elution Tubes
9. Product Insert

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- 95-100% ethanol
- Xylene, histological grade
- RNAase A (Optional)
- 55°C Incubator
- 90°C Incubator

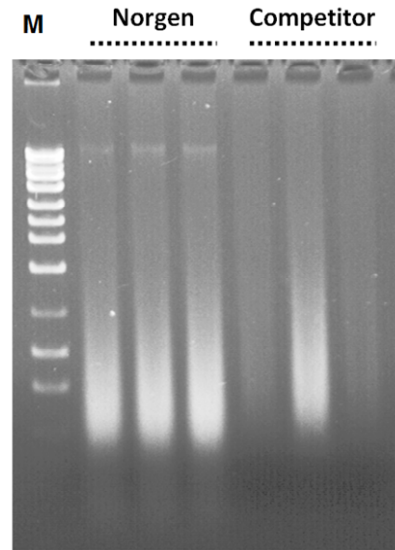


Figure 2. Comparison of DNA molecular weight range isolated by Norgen's Kit and a Leading Competitor FFPE DNA Purification Kits. DNA was isolated from 10 mg of FFPE kidney blocks. Based on the intensity of the bands, Norgen's kit captured more total DNA. Moreover, the DNA isolated by Norgen's kit covered a larger MW size compared with that isolated by the competitor kit. Both very high molecular DNA (intact genomic DNA, black arrow) as well as small molecular weight DNA were recovered. M = Norgen's High-Ranger Molecular Weight Ladder.

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. The Proteinase K should be stored at -20°C upon arrival and after reconstitution. These reagents should remain stable for at least 1 year in their unopened containers.

Shipping Conditions

The FFPE DNA Purification Kit is shipped at room

Cat #	Description	Quantity
47400	FFPE DNA Purification Kit	50 preps