

Mag-Bind® FFPE DNA/RNA 96 Kit

Sequential isolation of both DNA and RNA from the same FFPE sample



DNA/RNA Co-Extraction

One protocol, two analytes - recover both DNA and RNA without sample splitting



Rapid Processing

Reduced incubation times for faster turnaround



Safe Workflow

Xylene-free deparaffinization



Magnetic Bead-Based

Scalable, automation-ready for high-throughput

Mag-Bind® FFPE DNA/RNA 96 Kit

is designed for the sequential isolation of DNA and RNA in separate eluates from the same FFPE tissue sample. The purification of DNA and RNA from the same sample enables a more comprehensive analysis from a precious sample source. The protocol utilizes a specially formulated buffer system that not only partially reverses formaldehyde-induced crosslinking, but also ensures DNA and RNA are differentially purified with no cross-contamination. The kit can also be used for purification of only DNA or only RNA from FFPE samples if sequential isolation is not desired. Magnetic bead-based extraction makes it suitable for both manual as well as automated processing. Purified DNA and RNA are suitable for a variety of downstream applications including SNP analysis, NGS, and genotyping.

DECREASED INCUBATION TIME COMPARED TO PREVIOUS PROTOCOL

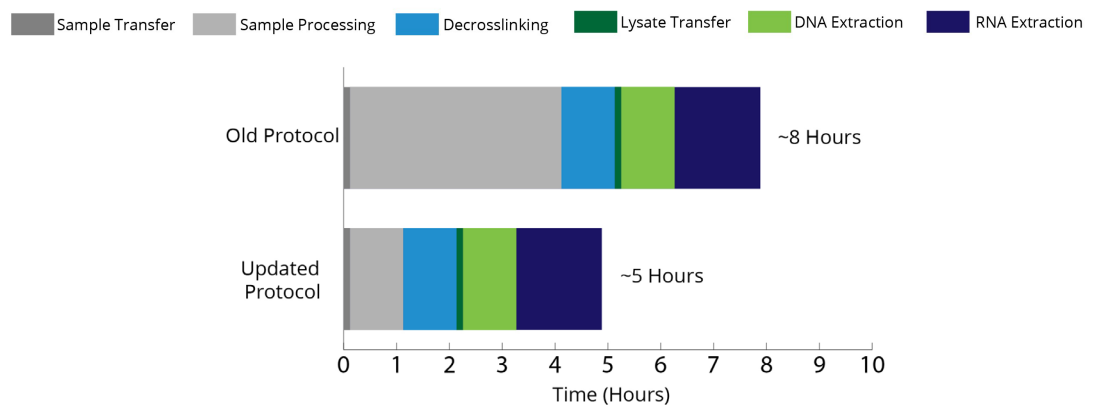
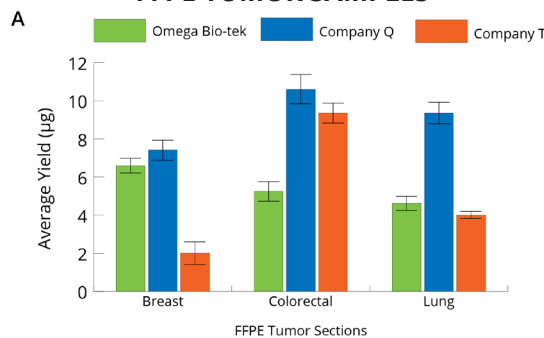


Figure 1. The updated protocol significantly reduces the total time required to extract both DNA and RNA from 7 hours 53 minutes to 4 hours 53 minutes by decreasing the upfront incubation time.

AVERAGE DNA YIELDS FROM DIFFERENT FFPE TUMOR SAMPLES



SUPERIOR RNA YIELDS VS COMPETITORS

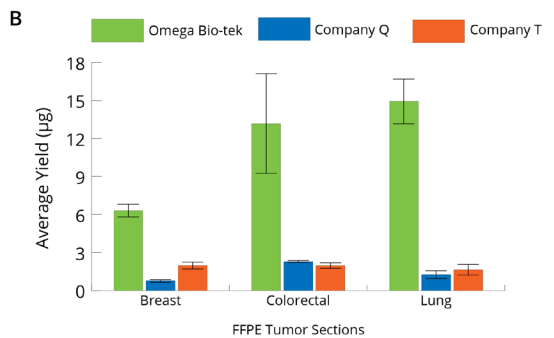


Figure 2. Genomic DNA and RNA were sequentially isolated from 3 x 10 µm sections of the same FFPE tumor tissue block (n=5) using Omega Bio-tek's Mag-Bind® FFPE DNA/RNA 96 Kit and comparable kits from Company T and Company Q following manufacturers' recommended protocols. Purified DNA and RNA were quantified using TapeStation® Analysis. DNA yield (A) was comparable or better vs Company T and comparable for 1 sample vs Company Q. RNA recovery (B) was significantly higher with Omega Bio-tek's kit for all the samples tested compared to kits from Company Q and Company T.



innovations in nucleic acid isolation

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Mag-Bind® FFPE DNA/RNA 96 Kit

Sequential isolation of both DNA and RNA from the same FFPE sample

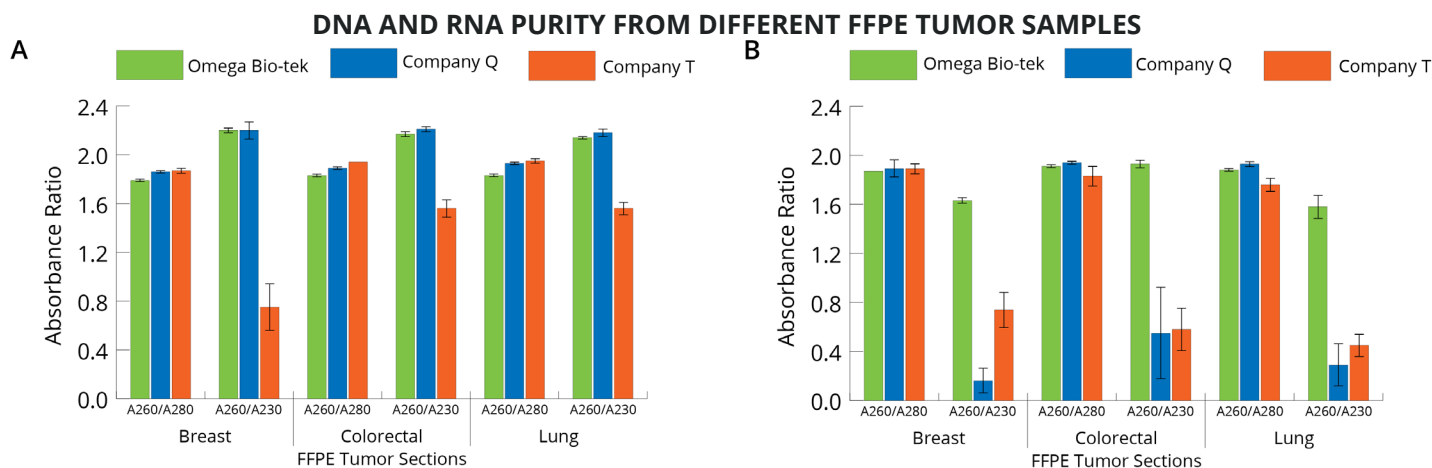


Figure 3. Purity of DNA (A) and RNA (B) isolated using different manufacturers' kits was analyzed through spectrophotometry focusing on A260/A280 and A260/A230 ratios.

Table 1. Compatibility of the Mag-Bind® FFPE DNA/RNA 96 Kit with multiple deparaffinization agents was analyzed via NanoDrop® 2000c. Yields and purities (A260/A280, A260/A230) were comparable among all agents tested.

Agent	DNA			RNA		
	Avg. Yield (µg)	A260/A280	A260/A230	Avg. Yield (µg)	A260/A280	A260/A230
Mineral Oil	6.7	1.8	2.1	21.3	1.9	1.7
HistoClear	6.5	1.8	2.2	17.4	1.9	1.9
HistoClear II	6.5	1.8	2.1	16.8	1.9	2.0
Hexadecane	6.8	1.8	2.2	18.5	1.9	1.9

Table 2. Ct values of DNA from colorectal FFPE tumor and matched fresh-frozen (FF) tissue at equal input across extraction kits. Omega Bio-tek shows Δ Ct values, especially for RNA, closest to theoretical 0, indicating better representation of FF expression, while DNA Δ Ct values are comparable across kits.

Kit	DNA		RNA	
	Ct	Δ Ct relative to FF	Ct	Δ Ct relative to FF
Omega Bio-tek	25.3	2.5	22.6	1.1
Company Q	25.5	2.7	26.2	4.7
Company T	25.5	2.4	23.8	2.3
Fresh Frozen (FF)	22.8	0	21.6	0

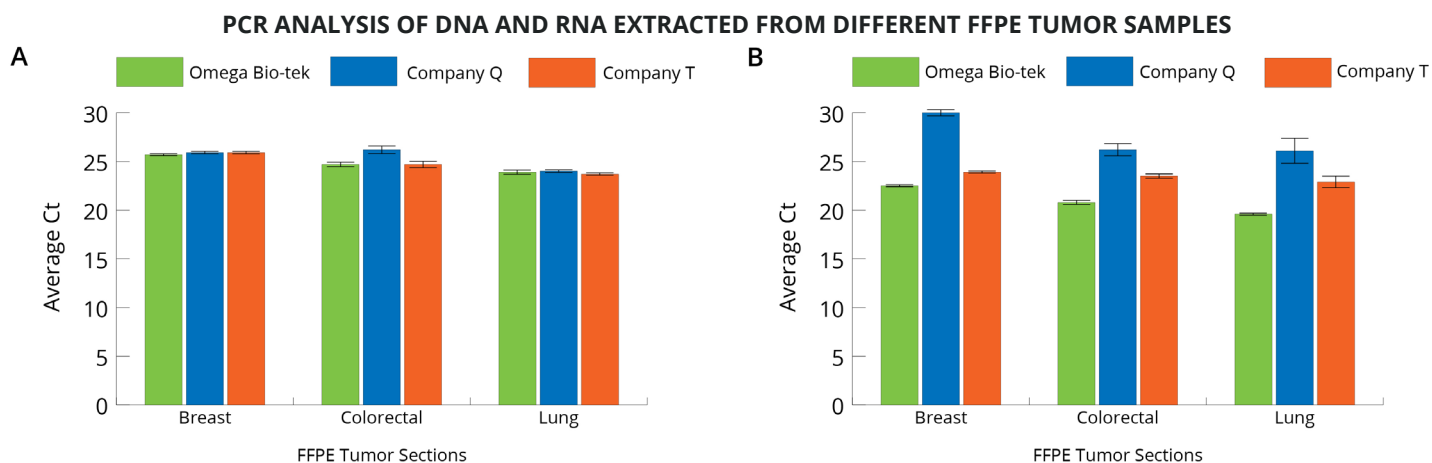


Figure 4. Average Ct values from 10X dilutions of DNA (A) and RNA (B) purified from 3 x 10 µm FFPE tumor sections (n=5). DNA Ct values were comparable across kits, while RNA Ct values were significantly lower with Omega Bio-tek's Kit, indicating higher RNA yield versus Companies Q and T.

Product Description	Size	Cat No.
Mag-Bind® FFPE DNA/RNA 96 Kit	1 x 96 Preps	M6955-00
	4 x 96 Preps	M6955-01