



RNA/DNA/Protein Purification Plus Kits

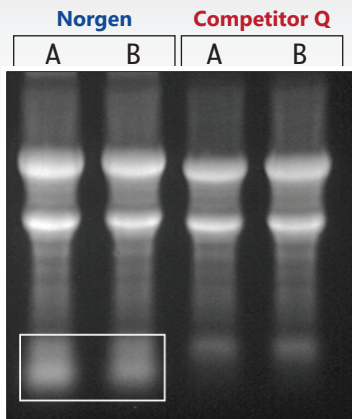
Rapid isolation of total RNA (with microRNA), DNA and protein *without phenol*



- ✓ Excellent separation of RNA, DNA and proteins over a wide range of inputs
- ✓ Superior performance with tissues and other complex samples
- ✓ Proteins are rapidly column-purified, NOT precipitated
- ✓ Recover all sizes of RNA including microRNA
- ✓ Ideal for small or difficult to obtain samples

The NORGEN **ADVANTAGE**

	Norgen RNA/DNA/Protein PLUS Kits	Qiagen AllPrep DNA/RNA/Protein Mini Kit	GE Healthcare Illustra TriplePrep Kit
microRNA Recovery	✓ Yes	✗ No	✗ No
Protein Purification	Spin Column	Protein Precipitation Solution	Protein Precipitation
Samples Processed	Cells, Tissues, Plants, Yeast, Fungi, Blood & Bacteria	Cells & Tissues	Cells & Tissues



KEY ADVANTAGE #1

Norgen's kits recover all sizes of RNA including microRNA without the use of hazardous and inhibitory phenol.

Figure 1. Total RNA including microRNA without phenol. Total RNA was recovered from hamster liver tissue using the Norgen RNA/DNA/Protein PLUS Kit and the Competitor Q RNA/DNA/Protein Kit and resolved on a denaturing agarose gel. Only the Norgen kit recovers small and microRNA effectively, as indicated by the white box.

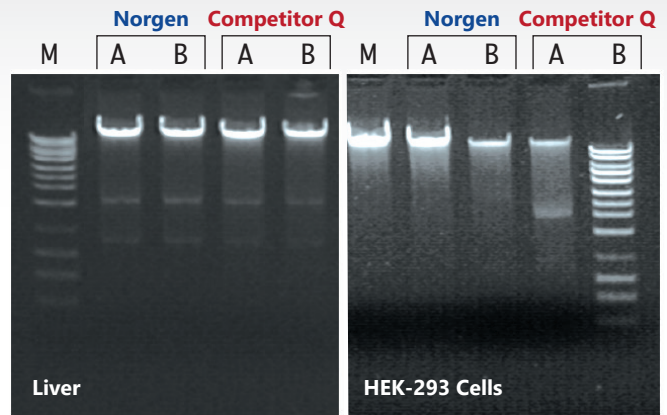
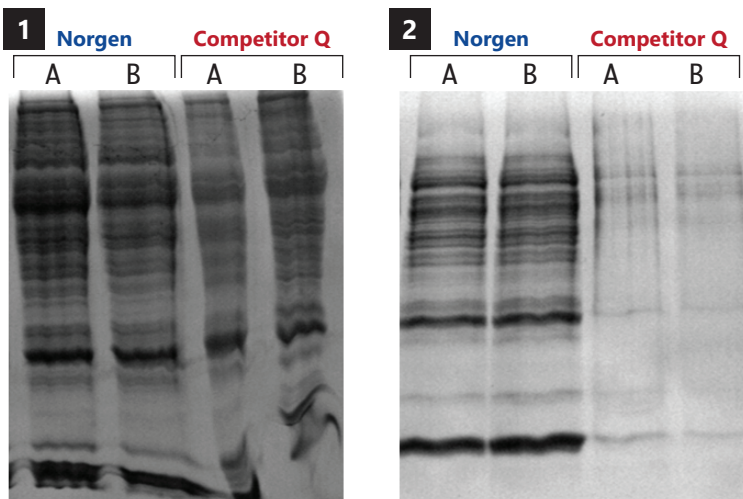


Figure 2. High yield, high quality genomic DNA recovery from tissues and cells. Genomic DNA was isolated from liver tissue and HEK 293 cells using Norgen's and Competitor Q's Kits. As can be seen, Norgen provided far superior DNA recovery and quality from both sample types.



KEY ADVANTAGE #2

Norgen's kits provide column-purified proteins ready for any application without further clean-up.

Proteins recovered using the Competitor Q Kit are precipitated and effectively dissolved only in detergents and denaturants making them useful in a limited number of applications.

Figure 3. Column purification of proteins provides better recovery and quality. Competitor Q purified proteins shown in gel #1 are resuspended in a provided SDS-PAGE loading buffer. Gel #2 shows the same Competitor Q proteins dissolved in Tris buffer. Norgen proteins shown on both gels are column-purified, desalted and buffer-exchanged to provide cleaner SDS-PAGE results.

Select Publications

Publication Title	Authors	Journal	Year
A20 suppresses vascular inflammation by recruiting proinflammatory signaling molecules to intracellular aggregates	Enesa K, Moll HP, Luong L, Ferran C, Evans PC	The FASEB Journal	2015
Integrative analysis of Head and Neck Cancer identifies two biologically distinct HPV and three non-HPV subtypes	Michaela K Keck, Zhixiang Zuo, Arun Khattri, Thomas P Stricker, Christopher Brown, <i>et al.</i>	American Association for Cancer Research	2014
Acquired initiating mutations in early hematopoietic cells of CLL patients.	Damm F, Mylonas E, Cosson A, Yoshida K, <i>et al.</i>	Cancer Discovery	2014

Ordering Information

Description	Size	Cat. Number
RNA/DNA/Protein Purification Plus Kit	50 preps	47700
RNA/DNA/Protein Purification Plus Micro Kit	50 preps	51600
RNA/DNA Purification Kit	50 preps	48700
RNA/DNA Purification Micro Kit	50 preps	50300
RNA/Protein Purification Kit	50 preps	48200
RNA/DNA/Protein Purification 96-Well Kit	2 x 96-well	51700



For more information
SCAN HERE

Visit our website: www.norgenbiotech.com to view our complete line of reagents and innovative sample preparation kits.