



MasterPure™ Complete DNA and RNA Purification Kit

Rapid, high-yield nucleic acid purification from a variety of samples

- **Rapid Procedure:** Purify DNA, RNA, or total nucleic acids (TNA) in 30–60 minutes
- **Efficient Purification:** Generate high yields of intact DNA, RNA, or TNA—without spin columns
- **Versatile Method:** Use one kit for human, animal, or plant tissues, bacteria, and cultured cells
- **Safe Workflow:** Avoids use of phenol, chloroform, or guanidinium salts
- **Wide-Ranging Applications:** Suitable for PCR, next generation sequencing, and other molecular biology applications

epicentre®
Exclusively available
thru Lucigen.

The MasterPure Complete Kit purifies high yields of intact TNA, DNA, or RNA from a broad spectrum of biological samples. Published applications include sample types such as: human, animal, and plant tissues, blood, plasma, bacteria, metagenomic communities, and many more.

The purified TNA, DNA, or RNA is of high quality: DNA A_{260}/A_{280} ratios are routinely 1.8–2.0. MasterPure purified nucleic acids are suitable for many molecular biology applications, including: cloning, endpoint and real-time PCR, next generation and capillary sequencing, bisulfite sequencing for epigenetics, ribosomal RNA analysis, and gene expression analysis.

The convenient, scalable protocol involves gentle lysis and purification that provides high yields of intact nucleic acids—all without the use of toxic chemicals or spin columns.

Improved DNA Yields/PCR Sensitivity without Spin Columns

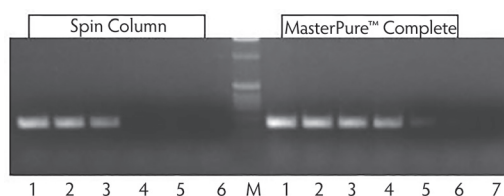


Figure 1. Comparison of PCR sensitivity using templates obtained with the MasterPure™ Complete Kit versus a spin-column kit. PCR amplification was performed on equivalent fractions of DNA purified from serial dilutions of *E. coli* cells ranging from 2×10^7 (lanes 1) to 200 (lanes 6). Lane M, DNA marker; lane 7, negative control.

High-Quality Nucleic Acid Purification from Many Sample Types

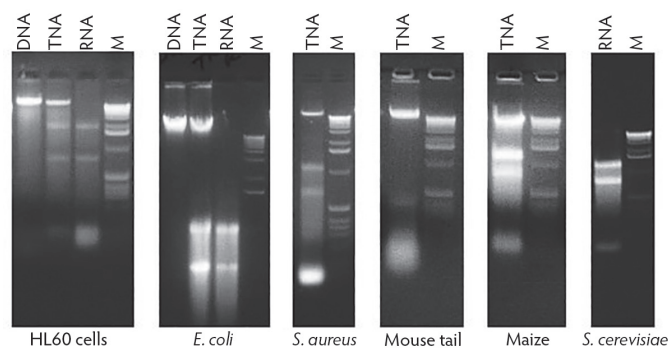


Figure 2. Nucleic acids purified from diverse sources using the MasterPure™ Complete Kit. Lane M, kilobase ladder.

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Lucigen®
Simplifying Genomics



Sample	Sample Size	Yield		
		TNA	DNA	RNA
Cells				
HeLa/HL60	1 x 10 ⁶ cells	10–30 µg	3–12 µg	7–15 µg
Tissues				
Liver	5 mg	33–42 µg	5–10 µg	13–25 µg
Brain	5 mg	9–13 µg	6–9 µg	4–11 µg
Heart	5 mg	6–10 µg	4–7 µg	4–5 µg
Kidney	5 mg	10–17 µg	3–8 µg	14–17 µg
Thymus	5 mg	15–30 µg	6–12 µg	9–18 µg
Mouse tail	0.5 cm	25–30 µg	9–11 µg	
Other				
Blood	200 µL	3–10 µg	3–9 µg	
Buffy coat	300 µL	40–55 µg	40–55 µg	3–6 µg
<i>E. coli</i>	3.5 x 10 ⁶ cells	2.5–2.8 µg	1.3–1.6 µg	1.6–1.8 µg
<i>S. mutans</i>	1.5 mL	0.9 µg		
Yeast* (<i>S. cerevisiae</i>)	2.2 x 10 ⁶ cells			11–18 µg
	1.1 x 10 ⁷ cells			70–78 µg

Table 1. High yields of purified nucleic acid from diverse sample types.

*Lucigen recommends the MasterPure Yeast DNA Purification Kit for extracting DNA from yeast.

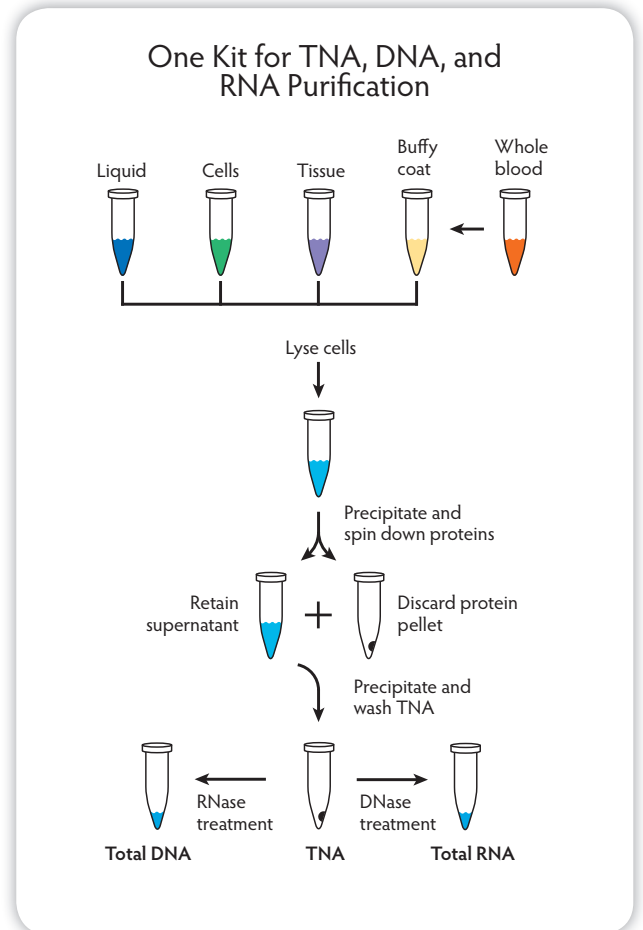


Figure 3. The MasterPure™ Complete Kit workflow.

Products	Size	Cat. No.	Price
MasterPure™ Complete DNA and RNA Purification Kit	200 DNA/100 RNA Purifications	MC85200	\$377
	10 DNA/5 RNA Purifications	MC89010	\$74

COMPONENTS

Red Cell Lysis Solution, Tissue and Cell Lysis Solution, MPC Protein Precipitation Reagent, 2X T&C Lysis Solution, TE Buffer, RNase A, RNase-Free DNase I, Proteinase K, 1X DNase Buffer, RiboGuard RNase Inhibitor.