

# Mag-Bind® Total RNA Xpress Kit

Isolate high-quality RNA, including small RNAs, with on-bead DNase digestion.



## Simplified Protocol

Streamlined, on-bead DNase digestion.



## High-Quality

Isolates total RNA including small RNAs



## High-Purity

Optimized DNA removal



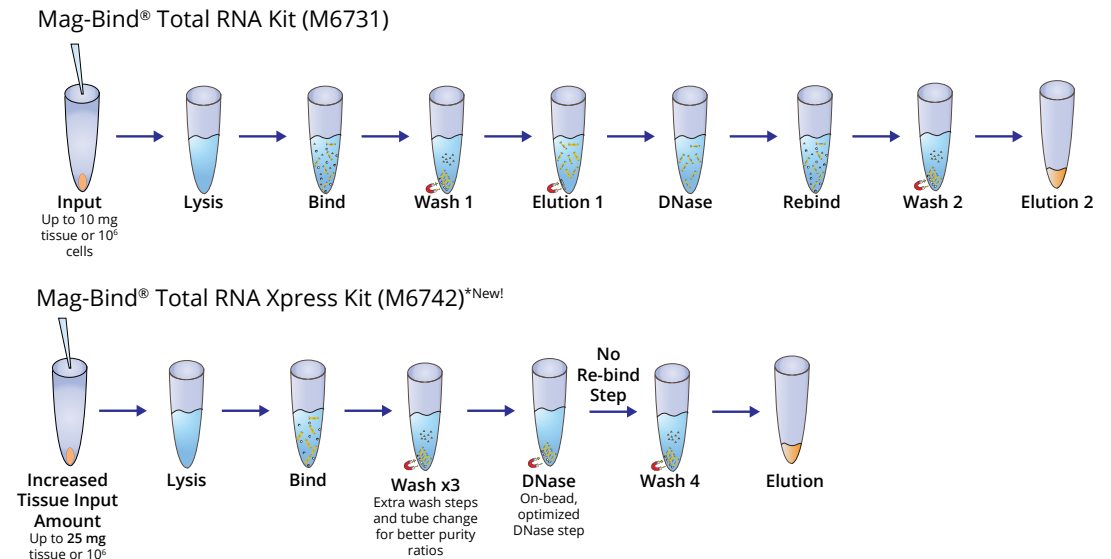
## Preservative Compatibility

Extract RNA from samples stored in a variety of preservation solutions

## Mag-Bind® Total RNA Xpress Kit

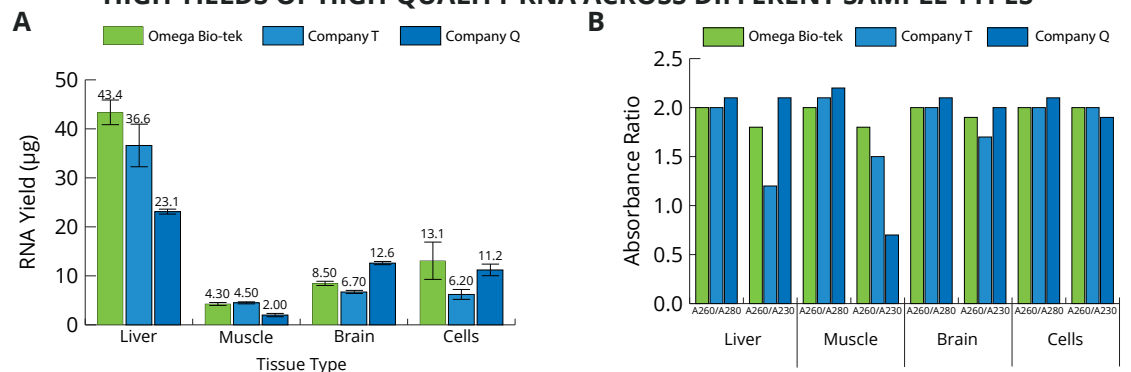
is designed for rapid and reliable isolation of high-quality total RNA, including small RNAs, from a wide variety of tissue and cultured cells. Total RNA can be purified from up to 25 mg tissue or  $1 \times 10^6$  cultured cells. The Kit utilizes magnetic bead-based technology and can be processed manually or automated on most open-ended liquid handling platforms and magnetic processors.

### SIMPLIFIED PROTOCOL WITH NO RE-BIND STEP



**Figure 1.** The Mag-Bind® Total RNA Xpress Kit utilizes an optimized protocol with on-bead DNase digestion, eliminating the need for a re-bind step and simplifying total RNA extraction.

### HIGH YIELDS OF HIGH-QUALITY RNA ACROSS DIFFERENT SAMPLE TYPES



**Figure 2. (A)** Average RNA yields from 10 mg of different tissue types and one million AD293 cells using Omega Bio-tek's Mag-Bind® Total RNA Xpress Kit and comparable kits from Company T and Company Q, following manufacturers' recommended protocols. Yields were measured by UV spectrophotometry. Total RNA yield using Omega Bio-tek's Kit was superior for all the samples tested except for brain (Company Q) and muscle (Company T). **(B)** Purity of RNA isolated using different manufacturers' kits analyzed through spectrophotometry focusing on A260/A280 and A260/A230 ratios.



innovations in nucleic acid isolation

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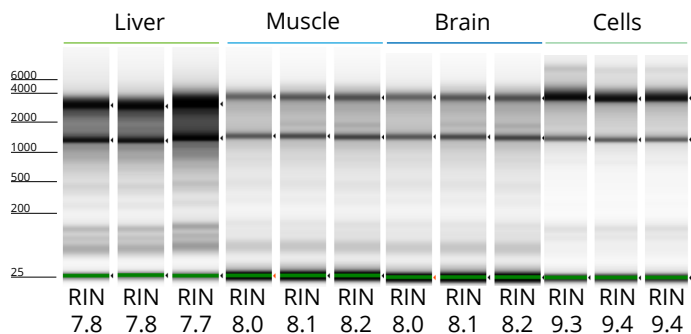


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# Mag-Bind® Total RNA Xpress Kit

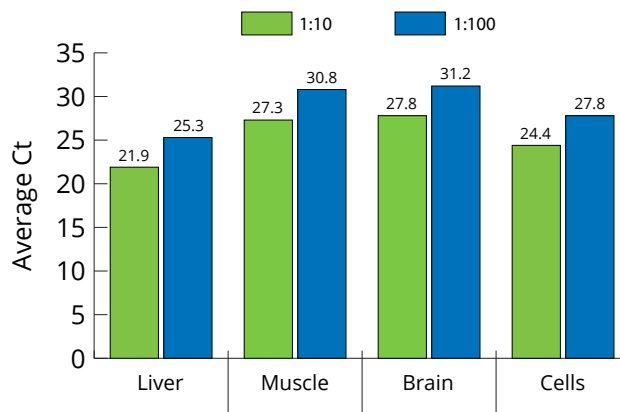
Isolate high-quality RNA, including small RNAs, with on-bead DNase treatment.

## HIGH-INTEGRITY RNA FROM DIFFERENT SAMPLE TYPES



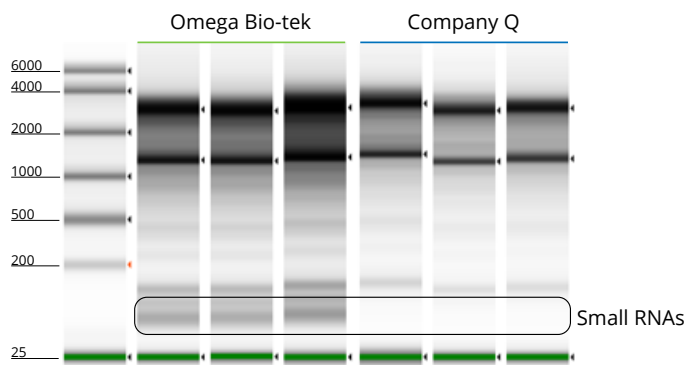
**Figure 3.** TapeStation® analysis of purified RNA from 10 mg of different tissue types and one million AD293 cells using Omega Bio-tek's Mag-Bind® Total RNA Xpress Kit. The Mag-Bind® Total RNA Xpress Kit resulted in high-quality intact RNA with RIN scores > 7.7 across all sample types tested (RIN=RNA Integrity Number).

## INHIBITOR-FREE RNA EXTRACTION



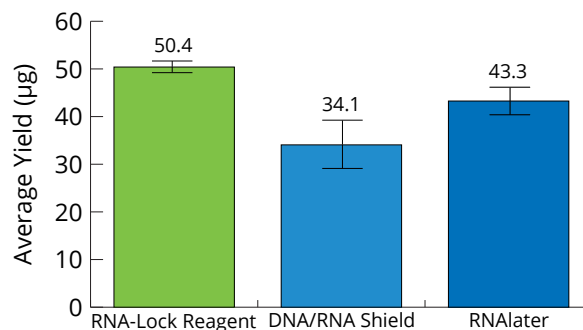
**Figure 4.** Average Ct values obtained on 10X and 100X dilutions of RNA purified from 10 mg of different tissue types and one million AD293 cells using Omega Bio-tek's Mag-Bind® Total RNA Xpress Kit. The Ct values differed by ~ 3.3 cycles per 10-fold dilution indicating inhibitor-free RNA extracted from all the samples extracted using Omega Bio-tek's kit.

## TOTAL RNA PURIFICATION INCLUDING SMALL RNAs



**Figure 5.** TapeStation® analysis of RNA purified from 10 mg liver using Omega Bio-tek's Mag-Bind® Total RNA Xpress Kit and a comparable kit from Company Q. Omega Bio-tek's kit was capable of purifying total RNA which includes small RNAs; small RNAs were missing in the total RNA purified using Company Q's kit.

## COMPATIBLE WITH MULTIPLE PRESERVATION MEDIAS



**Figure 6.** DNA and RNA was extracted from 10 mg murine liver tissue preserved in either Omega Bio-tek's RNA-Lock Reagent, Zymo's DNA/RNA Shield or Thermo Fisher's RNAlater. DNA and RNA was eluted in 100 µL. The results corroborate the compatibility of Mag-Bind® Total RNA Xpress Kit with various tissue storage and preservation solutions on the market.

Product Description	Size	Cat No.
Mag-Bind® Total RNA Xpress Kit	1 x 96	M6742-00
	4 x 96	M6742-01