

# MGIEasy Total RNA Extraction Set

This kit uses the high salt method to lyse and release RNA in the sample. The released RNA is then captured by magnetic beads and washed by specific wash buffer to remove impurity. It is suitable for total RNA extraction from samples such as cells, animal tissues (fresh or frozen), blood, etc. Simultaneously the kit adapt to automated nucleic acid extraction equipment with different throughput such as MGISP-NE384 and MGISP-960.



## High purity and concentration of RNA extraction

Especially suitable for the extraction of whole blood and cells



## Wide range of application types

Suitable for different sample types such as tissues, cells, blood, bacteria, etc.



## Applicable to High-throughput Automated Nucleic Acid Extraction equipment: MGISP-960, MGISP-NE384



## Product Information

Principle	Magnetic bead method
Period of validity	12 months
Specifications	96 RXN, 384 RXN
Storage conditions	MGIEasy Total RNA Extraction kit: room temperature
	DNase I : -25 ℃ ~-15 ℃
Sample type	Suitable for cultivating eukaryotic cells, tissues of humans or animals, blood, prokaryotic cells such as bacterial G+ and bacterial G-.
Application	RNA-seq、RT-qPCR ect.
Automatic equipment	MGISP-NE384、MGISP-960

## Performance

### ● Excellent extraction performance

Use MGIEasy total RNA extraction kit to extract RNA from 5 mg rat liver, 10 mg rat lung,  $1 \times 10^9$  E.coli. The results show that  $A_{260}/A_{280} > 2.0$ ,  $A_{260}/A_{230} > 1.8$ , with high extraction purity and concentration and superior extraction performance.

Table 1 Extraction Concentration and Purity of Different Sample Types

Sample type	A260/A280	A260/230	qubit ( $\mu$ g)
Rat liver	2.04	1.85	26.48
Rat lung	2.05	1.95	14.3
Colonic Cancer Cell	2.05	2.06	13.96
E.coil	2.07	1.95	12.38

### ● Wide range of application types

Use MGIEasy Total RNA extraction kit and Brand O, Brand Q RNA Extraction kit to extract RNA from different samples: rat liver, rat lung, E.coli, SAU and whole blood. The qPCR detection results show that MGIEasy total RNA extraction kit can extract high-quality RNA from different sample types, with a wide range of applications and better performance than competitors.

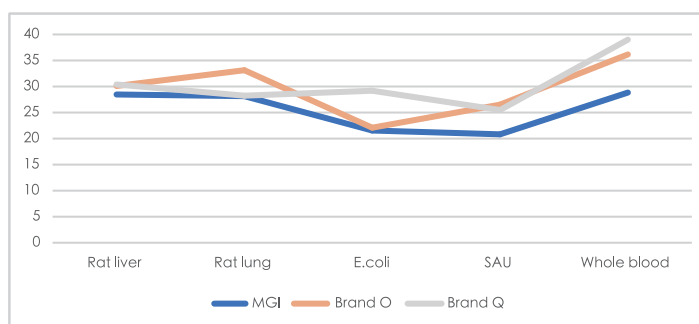


Figure 2 Comparison of qPCR results of total RNA extracted from different samples

### ● Effective automated extraction

The total RNA human colon cancer cells was extracted using the methods of manual, MGISP-NE384, MGISP-960 by using MGIEasy Total RNA Extraction Set. The results show that the automatic extraction of data was more reliable and better extraction performance.

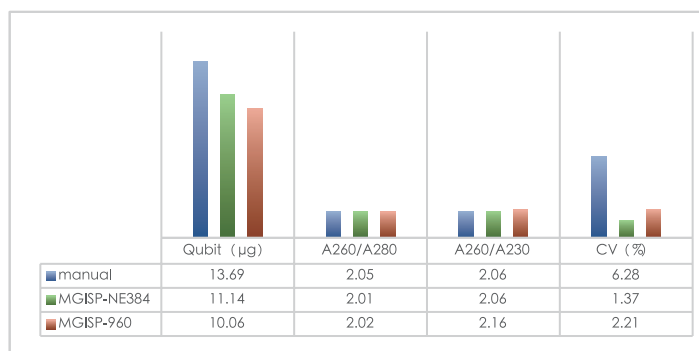


Figure 3 Comparison of extraction efficiency and stability of different extraction methods

## Ordering Information

Set name	Item NO.	Component Name	Specifications
MGIEasy Total RNA Extraction set (MRT96)	940-000880-00	MGIEasy Total RNA Extraction kit DNase I	96 RXN/ kit
MGIEasy Total RNA Extraction set (MRT384)	940-000875-00	MGIEasy Total RNA Extraction kit DNase I	384 RXN/ kit

