

easy-BLUE(TM) Total RNA Extraction Kit

■ CAT. 17061 (100 ml)

[We are pleased to offer unpublished higher discounts on large volume purchases.]



Theoretically, there is about $1-2 \times 10^{-5} \mu\text{g}$ of RNA per mammalian cell, and from 1×10^6 cells, about $10-20 \mu\text{g}$ of RNA can be extracted. The iNtRON easy-BLUE(TM) can effectively extract total RNA; RNA extraction rate reaches nearly theoretical number. Generally, it's difficult to obtain pure RNA due to mal-dissolution caused by post-PPT contamination of protein. The easy-BLUE(TM) shows clear advantage in RNA dissolution that overcomes typical problem in RNA extraction.

- Designed for use with cells or tissues.
- Single-step RNA isolation method.
- Entire procedure within 1 hour.
- Blue color solution

Format : Solution type

Sample source: Animal tissues and cells

Sample size: Tissues (<100mg), Cells(< $3-10 \times 10^6$) cells)

Prep. time: <60 minutes including a lysis step

Typical yield: $10-20 \mu\text{g}$ of RNA from 1×10^6 cells or $15-30 \mu\text{g}$ of RNA from 50mg tissues

Rehydration volume: $20-50 \mu\text{l}$

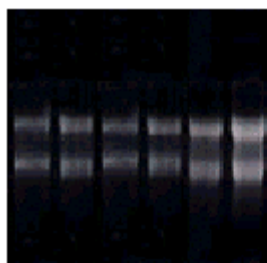
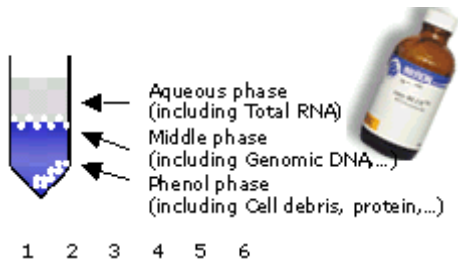


Fig. Gel Analysis of Total RNA Isolated from Tissues and Cells using easy-BLUE Kit

Total RNA was recovered from tissues and cells, and analyzed in gel electrophoresis. After resuspending total RNA in DEPC-treated sterile water, 2 μ l of RNA solution were loaded per lane on a 1.2% agarose-formaldehyde gel.

Lane 1, YAC1 cells; **lane 2**, SNU cells; **lane 3**, K562 cells; **lane 4**, mouse kidney; **lane 5**, mouse liver; **lane 6**, mouse spleen

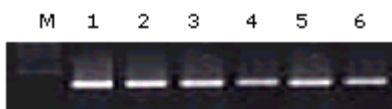


Fig 2. RT-PCR Amplification for β -actin gene

Total RNA was purified from different tissues and cells using easy-BLUE™ RNA Extraction Kit. And then, the first strand of cDNA was synthesized using Power cDNA Synthesis Kit. After diluting the cDNA mixture, the RT-PCR reaction was performed with i-actin PCR Pre-Mix Kit.

Lane M, marker DNA; **lane 1**, YAC1 cDNA; **lane 2**, SNU cDNA; **lane 3**, K562 cDNA; **lane 4**, mouse kidney cDNA; **lane 5**, mouse liver cDNA; **lane 6**, mouse spleen cDNA