

Product Application

Using the ReliaPrep™ RNA Cell Miniprep System to Isolate RNA From tissue lysates in TRIzol®.

Isolate high quality, amplifiable RNA from tissues homogenized in phenol and guanidine isothiocyanate based products such as $TRIzol^{\otimes}$ using $ReliaPrep^{\mathbf{m}}$. No need for phase separation or additional organic solvents.

Kit: Reliaprep™ RNA Cell Miniprep System

Analyses: GoTaq[®] RT-qPCR, QuantiFluor[®] quantitation

Sample Type(s): mammalian tissue

Input: up to 500μl of TRIzol® or other phenol and guanidine isothiocynate based lysate.

Materials Required:

Reliaprep™ RNA Cell Miniprep System (Cat. #Z6011)

Protocol:

- 1. Prepare tissue lysate in TRIzol® as indicated in the TRIzol® Reagent technical manual up to the point where phase separation would be performed.
- 2. Add 35ul of isopropanol per 100ul of lysate.
- 3. Mix by vortexing for 5 seconds.
- 4. Transfer up to 500μ l of lysate to a ReliaPrepTM Minicolumn and centrifuge at 12,000-14,000 x q for 30 seconds at room temperature.
- 5. Continue with ReliaPrep™ Protocol as described in TM starting with step 8.

This protocol was developed by Promega Applications Scientists and is intended for research use only.

The user is responsible for determining its suitability in the user's application.

For further information, please contact

techserv@promega.com



Product Application

Results:

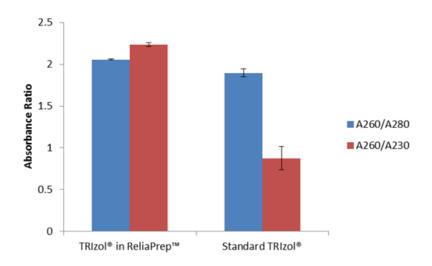


Figure 1: Purity Ratios measured from RNA isolated with the ReliaPrep™ RNA Cell Miniprep System or the standard TRIzol® Reagent protocol

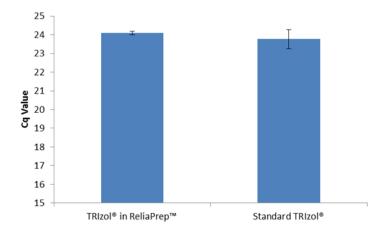


Figure 2: Cq values from RT-qPCR with RNA isolated from 500μl of TRIzol® tissue lysate containing 10mg of mouse liver with the ReliaPrep™ RNA Cell Miniprep System or the standard TRIzol® Reagent protocol. RT-qPCR was run using 2.5μl of RNA in the GoTaq® Probe 1-Step RT-qPCR System.