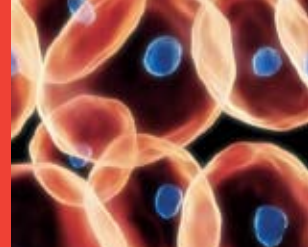


# Thermo Scientific CytosALL™ Reagent for Rapid RNA Preparation



For the rapid preparation and direct use of cytoplasmic lysates from mammalian cells in adherent or suspension cultures

Thermo Scientific CytosALL™ Reagent is used to prepare cytoplasmic RNA that is free from detectable genomic DNA contamination. Prepared lysates can be used directly in a wide range of applications including reverse transcription PCR (RT-PCR) and quantitative RT-PCR (qRT-PCR).

- **All of the Convenience, All of the Time**

Minimize handling and save time when processing many samples.

Lyse cells, centrifuge briefly and use directly.

Lysates are stable for up to 2 weeks at -20°C.

- **DNA Removal Not Required**

Lysates are free of detectable genomic DNA contamination, reducing false positive results.

No treatment is needed to remove or inactivate DNase.

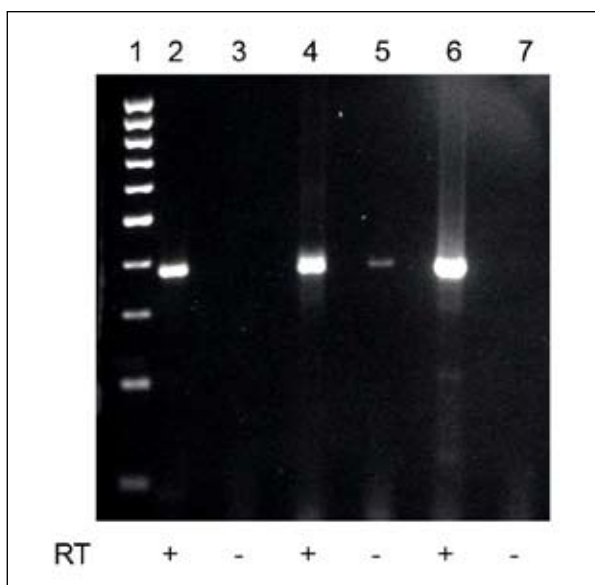
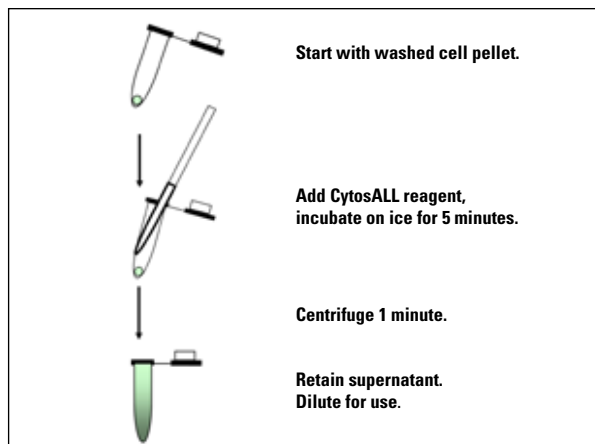
Standard primers can be used. cDNA-specific primers that discriminate between cDNA-derived and genomic DNA-derived amplification are not required.

- **RNA Purification Not Required**

Time, handling and cost associated with Poly (A) or silica-based separation are eliminated.

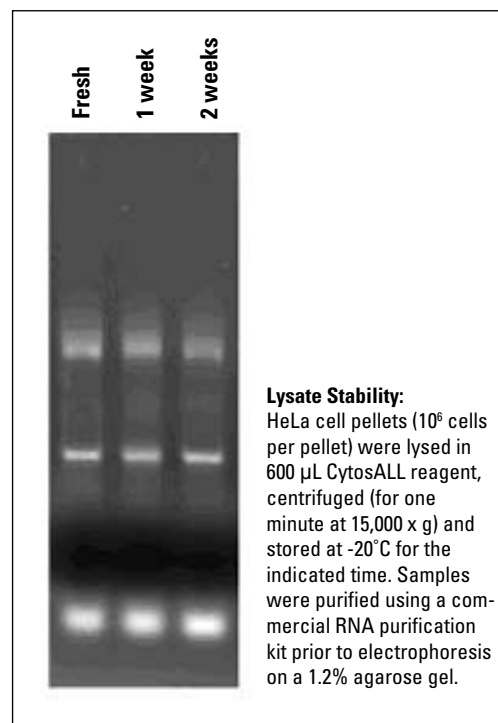
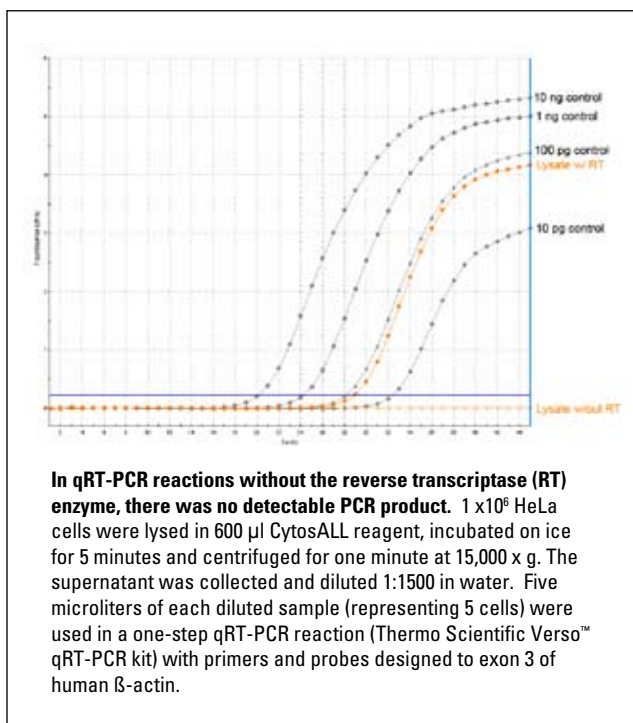
Cumbersome organic extraction steps and the problems associated with carryover of phenol, ethanol or salts are eliminated.

Sample loss and the introduction of size or sequence bias in the RNA population due to purification are avoided.



**Genomic DNA contamination is below the detection limit of RT-PCR.**

**In RT-PCR reactions without the reverse transcriptase (RT) enzyme, there was no detectable PCR product.**  $1 \times 10^6$  HeLa cells were lysed in 600  $\mu$ l CytosALL reagent, incubated on ice for 10 minutes and centrifuged for one minute at 15,000 x g. The supernatant collected was diluted 1:4 in water. One microliter of each diluted sample was added to a RT reaction, either with or without the RT enzyme, and incubated at 42°C for one hour. Six microliters of resulting cDNA was added to an amplification reaction containing primers for exon 13 of the human GAPD(H) gene. Whole cell lysates were obtained from  $1 \times 10^6$  HeLa cells using a commercial kit. Lane 1: Marker; Lane 2: CytosALL Lysate with RT; Lane 3: CytosALL Lysate without RT; Lane 4: whole cell lysate with RT; Lane 5: Whole cell lysate without RT; Lane 6: Control RNA with RT; Lane 7: Control RNA without RT



## CytosALL Reagent

### CytosALL reagent, 60 mL

Volume supplied	60 mL
# lysates/bottle	100
Storage Conditions	+4° C

## Ordering Information

Product Name	Product #
CytosALL Reagent	RG520106
Ribonuclease Inhibitor, porcine	AB1296B

## Related Products

- Thermo Scientific dNTPs
- Thermo Scientific Taq Polymerase, Native & Recombinant
- Thermo Scientific rNTPs
- Thermo Scientific M-MuLV Reverse Transcriptase
- Thermo Scientific p(dN)<sub>6</sub>
- Thermo Scientific p(dT)<sub>12-18</sub>
- Thermo Scientific Verso™ qRT-PCR Kit
- Thermo Scientific Verso™ RT-PCR Kit

For more information visit the web site at [www.thermo.com/milwaukee](http://www.thermo.com/milwaukee)

## Thermo Fisher Scientific (Milwaukee) LLC

We develop integrative partnerships with customers across the globe to provide premium molecular biology reagents and innovative services. These products are used in a variety of applications to advance the development of biotechnology research, diagnostic and therapeutic applications.

Tel: 877-886-7629 (toll-free) • Tel: 414-227-3600 • Fax: 414-227-3757  
 Technical Assistance E-mail: [mke.csm@thermofisher.com](mailto:mke.csm@thermofisher.com) • Internet: [www.thermo.com/milwaukee](http://www.thermo.com/milwaukee)

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