

# FirstChoice® Human Burkitts Lymphoma (Raji) Total RNA

Store at or below  $-70^{\circ}\text{C}$ .  
Do not store in a frost-free freezer.

<b>Catalog # (Part No.):</b>	AM7856
<b>Amount:</b>	100 $\mu\text{g}$
<b>Volume:</b>	100 $\mu\text{L}$
<b>Concentration:</b>	1 mg/mL
<b>Absorbance</b> <sub>260/280</sub> *	1.7–2.1
<b>Storage Conditions:</b>	Store at or below $-70^{\circ}\text{C}$ . Avoid multiple freeze-thaw cycles. Aliquots of the product may be stored short-term at $-20^{\circ}\text{C}$ . <b>Do not store in a frost-free freezer.</b>
<b>Storage Buffer:</b>	THE RNA Storage Solution (1 mM Sodium Citrate, pH 6.4; Part no. AM7000)

## USER INFORMATION

**Product Description:** FirstChoice® Human Cell Line Total RNA is prepared from cells homogenized in ToTALLY RNA™ Lysis/Denaturation Solution (Part no. AM8540G), flash-frozen in liquid nitrogen, and stored at  $-80^{\circ}\text{C}$  until use. RNA is isolated using Ambion® RNA isolation reagents. The purified RNA undergoes a stringent DNase treatment. It has been precisely quantified and is provided at 1 mg/mL in THE RNA Storage Solution (Part no. AM7000). The integrity of the RNA is verified by capillary electrophoresis using the Agilent 2100 bioanalyzer.

FirstChoice Cell Line Total RNA provides the researcher with access to RNA isolated from a cell line that might otherwise be unavailable or difficult to work with due to small sample size or high RNase content. In addition, the RNA may serve as a positive control when a particular mRNA is known to be expressed in this cell line. FirstChoice Total RNAs are ready for use in RT-PCR, Northern analysis, ribonuclease protection assays, S1 nuclease assays, cDNA synthesis, and in vitro translation. FirstChoice Total RNA is certified to contain small RNAs (miRNA, siRNA, and snRNA).

**Handling Instructions:** RNA is very sensitive to degradation by exogenous ribonucleases introduced during handling. Wear gloves when handling this product. Use RNase-free reagents, tubes, and barrier pipette tips.

### Thawing Instructions

Thaw just to completion at  $37^{\circ}\text{C}$ , vortex for a few seconds when fully thawed, and place on ice. Aliquot the RNA, if necessary, to minimize freeze-thaw cycles ( $\leq 5$ ).

**Reference:** 1. Pulvertaft RJ. (1964) Cytology of Burkitts' tumour (African lymphoma). *Lancet* 1: 238–240.

## QUALITY CONTROL

**Exonuclease Activity:** A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.

**Functional Testing:** All Total RNAs undergo accelerated stability testing. RNA integrity is checked on an Agilent bioanalyzer before and after a 14–18 hr incubation at  $37^{\circ}\text{C}$ . DNA contamination is checked by real-time PCR using a TBP (Tata Box Binding Protein) TaqMan® probe.

## OTHER INFORMATION

**Safety Data Sheets:** Safety Data Sheets (SDSs) are available from: [www.invitrogen.com/sds](http://www.invitrogen.com/sds) or [www.appliedbiosystems.com/sds](http://www.appliedbiosystems.com/sds). **Note:** For the SDSs of chemicals not distributed by Life Technologies, contact the chemical manufacturer.

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