

FirstChoice® Human Burkitts Lymphoma (Raji) Total RNA

Store at or below -70°C .
Do not store in a frost-free freezer.

Catalog #:	AM7856
Amount:	100 μg
Volume:	100 μL
Concentration:	1 mg/mL
Absorbance <small>$_{260/280}$</small>	1.7–2.1
Storage Conditions:	Store at or below -70°C . Avoid multiple freeze-thaw cycles. Aliquots of the product may be stored short-term at -20°C . Do not store in a frost-free freezer.
Storage Buffer:	THE RNA Storage Solution (1 mM Sodium Citrate, pH 6.4; Cat #AM7000)

USER INFORMATION

Product Description: FirstChoice® Human Cell Line Total RNA is prepared from cells homogenized in ToTALLY RNA™ Lysis/Denaturation Solution (Cat #AM8540G), flash-frozen in liquid nitrogen, and stored at -80°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 (Cat #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°C , vortex for a few seconds when fully thawed, and place on ice. Aliquot the RNA, if necessary, to minimize freeze-thaw cycles (≤ 5).

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

QUALITY CONTROL

Nonspecific Endonuclease Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 300 ng supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.

Exonuclease Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 40 ng ^{32}P -labeled *Sau3A* fragments of pUC19 and analyzed by PAGE.

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°C . DNA contamination is checked by real-time PCR using a TBP (Tata Box Binding Protein) TaqMan® probe.

OTHER INFORMATION

Material Safety Data Sheets: Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS_Inquiry_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by telephone or postal mail. (Requests for postal delivery require 1–2 weeks for processing.)

Warranty and Liability: *For research use only. Not for use in diagnostic procedures.*

Applied Biosystems is committed to delivering superior product quality and performance, supported by industry-leading global service and technical support teams. Warranty information for the accompanying consumable product is available at www.ambion.com/info/warranty in "Limited Warranty for Consumables," which is subject to the exclusions, conditions, exceptions, and limitations set forth under the caption "EXCLUSIONS, CONDITIONS, EXCEPTIONS, AND LIMITATIONS" in the full warranty statement. Please contact Applied Biosystems if you have any questions about our warranties or would like information about post-warranty support.

**Trademarks, Patents, and
Licensing:**

Applied Biosystems, AB (Design), Ambion, and FirstChoice are registered trademarks, and ToTALLY RNA is a trademark of Applied Biosystems Corporation or its subsidiaries in the US and/or certain other countries. TaqMan is a registered trademark of Roche Molecular Systems, Inc. All other trademarks are the sole property of their respective owners.

© 2007 Ambion, Inc. All rights reserved. 4386565A