

**FirstChoice® Human Breast
Adenocarcinoma (MCF-7)
Total RNA**

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

Catalog # (Part No.):	AM7846
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 . <i>Do not store in a frost-free freezer.</i>
Storage Buffer:	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°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™ instrument.

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. Soule HD, Vazquez J, Long A, Albert S, Brennan M. (1973) A human cell line from a pleural effusion derived from a breast carcinoma. *J. Natl. Cancer Inst.* **51**: 1409–1416.

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™ instrument 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

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

Warranty and Liability: *For research use only. Not intended for human or animal therapeutic or diagnostic use.*

Life Technologies 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.appliedbiosystems.com/absite/us/en/home/legal/warranty-information 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 Life Technologies if you have any questions about our warranties or would like information about post-warranty support.

Information in this document is subject to change without notice. Life Technologies assumes no responsibility for any errors that may appear in this document.

Life Technologies disclaims all warranties with respect to this document, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. In no event shall Life Technologies be liable, whether in contract, tort, warranty, or under any statute or on any other basis for special, incidental, indirect, punitive, multiple or consequential damages in connection with or arising from this document, including but not limited to the use thereof.

**Trademarks, Patents, and
Licensing:**

The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners. TaqMan is a registered trademark of Roche Molecular Systems, Inc. Agilent and Bioanalyzer are trademarks of Agilent Technologies, Inc.

Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

© 2011 Life Technologies Corporation. All rights reserved. 4386557B