

**FirstChoice® Human
Brain Reference Total
RNA****Store at -70°C.**Do not store in frost-free
freezer**Concentration:** 1 mg/ml**Absorbance_{260/280}** 1.7–2.1**Storage Buffer:** RNA Storage Solution (1 mM sodium citrate, pH 6.4 Cat #7000).**Quality Control:** Nonspecific Endonuclease/Nickase Activity: None detected after a 14–16 hr incubation of 1 µg of RNA with 300 ng of supercoiled plasmid DNA, analyzed on an agarose gel.Exonuclease Activity: None detected after a 14–16 hr incubation of 1 µg of RNA with 40 ng of ³²P-labeled *Sau3A* fragments of pUC19, analyzed by PAGE.Functional Testing: All Total RNAs undergo accelerated stability testing. RNA integrity is checked before and after a 14–18 hr incubation at 37°C on the Agilent Bioanalyzer. DNA contamination is checked by real-time PCR using a TBP TaqMan® probe**USER INFORMATION**

No known test method can offer absolute assurance that products derived from human biological materials will not transmit infectious diseases. Employ appropriate universal precautions when using human derived materials (1).

Total RNA is prepared using a modified version of Ambion's ToTALLY™ RNA Kit (Cat #1910) for RNA Isolation. The tissues are stored in RNAlater™ Tissue Collection: RNA Stabilization Solution (Cat #7020) or frozen until processed. The RNA is resuspended at 1 mg/ml in RNA Storage Solution (Cat #7000). The RNA has been precisely quantified and DNase-treated to minimize DNA contamination. The RNA is ideal for studying the expression pattern of a particular mRNA species, and provides the researcher with access to RNA for tissue that might otherwise be unavailable or difficult to work with due to the small sample size or high RNase content. In addition, the RNA may serve as a positive control when particular mRNA is known to be expressed in this tissue. Ambion's Total Human RNAs are ready for use in Northern analysis, ribonuclease protection assays, S1 nuclease assays, cDNA synthesis, RT-PCR and in vitro translation.

**Ambion is committed to maintaining the highest level of ethical standards in regards to all tissue that is used in the preparation of RNA and RNA derived products.

**Ambion certifies that all of our human derived materials have been prepared from tissue obtained with consent from a fully informed donor or a member of the donor's family.

**Ambion further guarantees that all human tissue received has been procured following our internal guidelines and policies.

REFERENCES

1. Grizzle W.E. and Polt S.S. (1998) Guidelines to avoid personnel contamination by infective agents in research laboratories that use human tissues. *J. Tissue Culture Methods*. **11**:191-199.

Certified by: 

Date: 10/10/05

ALL PRODUCTS SOLD BY AMBION ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSES.

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Source information:

Age	Sex	Race
68	M	Caucasian
59	F	Caucasian
63	M	Caucasian
73	F	Caucasian
59	F	Caucasian
23	M	Caucasian
81	M	Caucasian
84	F	Caucasian
54	M	Caucasian
79	M	Caucasian
61	M	Unknown
86	M	Caucasian
85	F	Caucasian
78	F	Caucasian
81	M	Caucasian
70	M	Caucasian
55	M	Caucasian
74	F	Caucasian
60	M	Caucasian
59	F	Caucasian
54	M	Caucasian
86	F	Caucasian
80	F	Caucasian

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