



PRODUCT INFORMATION

RNA Markers

The growing utilization of RNA in molecular techniques (such as Northern hybridization, RT-PCR, and cDNA library construction) necessitates the need for calibration of purification and transcription products.

AMRESCO offers three RNA molecular weight markers for this purpose to be used in conjunction with our high-quality agaroses, purification kits, hybridization kits and reagents.

RNA Markers

RNA Marker, 16S & 23S, (Code # J707) ribosomal RNA. This molecular weight marker is purified from *E.coli*. and resolves 2 fragments, approximately 1,776bp and 3,566bp, respectively. The storage buffer for this marker is a 1mM Sodium Citrate solution.

RNA Marker, 18S & 28S, (code # J706) ribosomal RNA. This molecular weight marker is purified from Calf Liver and resolves 2 fragments, approximately 2,000bp and 5,300bp, respectively. The storage buffer for this marker is a 1mM Sodium Citrate buffer, pH 6.4.

For evaluation by electrophoresis, 3-5µg of either marker will generate 2 distinct bands on a 1% denaturing agarose gel with ethidium bromide staining. These markers can also be used for Northern Blots.

Transtep™ RNA Marker

Transtep™ RNA Marker, (Code # J708). This molecular weight marker is a unique ladder comprised of 10 transcription products, varying in size from 0.5 kb to 9.0 kb. The standards can be used for Northern Blots and are visualized by ethidium bromide staining. The storage buffer for this marker is 0.1mM EDTA solution.

For evaluation by electrophoresis, 2-4µg of the marker will generate 10 distinct bands on a 1% denaturing agarose gel with ethidium bromide staining.

In preparation for electrophoresis, all of the markers should be mixed with an appropriate loading buffer (for denaturing gel electrophoresis), heated to 65°C for 10 minutes, and then placed on ice.



All AMRESCO RNA Markers are quality assured. Precautions should be taken when working with any RNA product. To inhibit the introduction of degrading nucleases the use of gloves and RNase-free tips/tubes is recommended when pipetting or aliquoting these products. The use of diethyl pyrocarbonate-treated (DEPC) solutions is also recommended.

AMRESCO recommends storing all RNA markers at -70°C for long-term storage and -20°C for short-term storage. Do not store RNA markers in a frost-free freezer.

Ordering Information:

	Code	Size
RNA Marker, 18S & 28S	J706	250 μg
RNA Marker, 16S & 23S	J707	2.5 mg
Transtep RNA Marker	J708	50 μg



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