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*Data Sheet***Ready-to-Hybridize Rat Embryo Northern Blot****Catalog #:** RN-104**Quantity:** 1 blot**Storage Conditions:** Store in a sealed bag at room temperature or 4°C. It is good for several months.**Applications:** Rat Embryo Northern blot can be used to:

- Analyze gene expression pattern in 7 different embryonic tissues simultaneously.
- Determine size and relative abundance of specific messages.
- Identify alternative spliced forms.

Quality Control: Every step of preparation of the blot, from harvesting tissues and extraction of RNA to the blotting, is carefully monitored to ensure the superior quality and performance.

- Blot is made from total RNA that is treated with RNase-free DNase to remove residual DNA. The purity and integrity of RNA are tested by formaldehyde-denatured agarose gel electrophoresis.
- The efficiency of transfer is checked by staining gel with ethidium bromide.
- The integrity of the blotted RNA is tested by beta-actin specific probe.

Description: Total RNA (20 µg each) was extracted from freshly dissected whole embryos (Sprague Dawley rat), fractionated through formaldehyde-denatured agarose gel, transferred to a positively charged nylon membrane, and cross-lined by UV light.

The band sizes of the RNA marker (major bands: 9kb, 6 kb, 5 kb, 4 kb, 3kb, 2.5 kb, 2kb, 1.5 kb, 1.0 kb and 0.5 kb) are marked on the membrane.

Tissues on the blot: Embryo RNA samples were loaded in the following left to right order: (1) Pregnancy E12, (2) Pregnancy-E13, (3) Pregnancy-E14, (4) Pregnancy-E15, (5) Pregnancy-E16, (6) Pregnancy-E17, (7) Pregnancy-E18, and (8) Pregnancy-E19.**Hybridization:** Prior to use, wet blot in water for few minutes. Zyagen blots can be hybridized using isotopic and non-isotopic DNA or RNA probes. You can follow any general protocol of Northern blot analysis for hybridization, post-washing, and stripping (reusing blot) probe. However, we recommend protocols published in the following books: "Short protocols in molecular biology" by Frederick Ausubel et al. and "RNA Methodologies" by Robert Farrell.**Stripping Probe:** Blot is reusable for several times, just strip probe and re-hybridize with a new one. Keep blot wet until the previously hybridized probe has been removed. It is extremely difficult to completely remove hybridized probe from a membrane that has been allowed to dry.**Intended use of the products:** All products sold by AMSBIO are intended for research use only and must not be used for medical diagnostic or drug purposes. AMSBIO products may not resell, modified for resale or used to manufacture commercial products without written approval from AMSBIO.**Limited product warranty:** AMSBIO has a total quality assurance policy. If any product does not meet the specification stated in the product data sheet will be replaced at no charge. This warranty limits AMSBIO liability to the replacement of the product only. No other warranties of any kind, express or implied, including without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by AMSBIO.AMSBIO shall not liable for any incidental, in direct, special or consequential damages, even if it is aware of the possibility of such damages.**UK & Rest of World**

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