Data Sheet

Ready-to-Hybridize Bovine Multiple Tissue Northern Blot

Catalog #: BN-MT-1

Quantity: 1 blot

Storage Conditions: Store in a sealed bag at room temperature or 4oC. It is good for several months.

Applications: Bovine multiple tissues Northern blot can be used to:

- Analyze gene expression pattern in 15 multiple tissues simultaneously.
- Determine size and relative abundance of specific messages in the mixed tissues.
- 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 multiple bovine tissues, 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: RNAs were loaded in the following left to right order: (1) Brain (whole), (2) stomach (whole), (3) intestine (whole), (4) colon, (5) liver, (6) lung (7) kidney, (8) Heart, (9) ovary, (10) skeletal muscles, (11) spleen, (12) testis, (13) thymus, (14)prostate, and (15) Pancreas.

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.

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