

## 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 4°C. 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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### UK & Rest of World

184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

### Switzerland

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

### Deutschland

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

### United States

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: +1 800 987 0985  
Fax: +1 949 265 7703



**UK & Rest of World**

184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

**Deutschland**

Bockenheimer Landsr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**North America**

23591 El Toro Rd, Suite #147  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**

[info@amsbio.com](mailto:info@amsbio.com)

[www.amsbio.com](http://www.amsbio.com)  
AMS Biotechnology