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Product Information

18S + 28S Ribosomal RNA From Calf Liver

Product No. **R 0889**

Storage Temperature –70 °C

Product Description

18S + 28S Ribosomal RNA is suitable as a molecular weight marker for formaldehyde agarose gel electrophoresis.

It is supplied at a concentration of 2.0 mg/ml in TE (10 mM Tris, pH 8.0, with 1 mM EDTA).

Precautions and Disclaimer

18S + 28S Ribosomal RNA is intended for R&D use only. Consult the MSDS for information regarding hazards and safe handling practices.

Procedure

The RNA marker sample solutions are prepared for electrophoresis as follows:

1.0 µg	18S + 28S Ribosomal RNA (Product No. R 0889).
2.5 µl	10x Running Buffer (400 mM MOPS, 100 mM Sodium Acetate, 10 mM EDTA, Product No. M 5755).
3.5 µl	37% Formaldehyde (Product No. F 8775).
10 µl	Deionized Formamide (Product No. F 9037).
1 µl	Ethidium Bromide (0.2 mg/ml, Product No. E 1385, diluted 2.5-fold)

Incubate this solution at 65 °C for 10 minutes and immediately transfer to ice to cool. Add 2 µl of RNA Sample Loading Dye [50 %(v/v) glycerol, 1 mM EDTA, 0.4 %(w/v) bromophenol blue, 0.4 %(w/v) xylene cyanol FF] and mix. Add 2 µl of this sample mixture to the marker lane well of a denaturing (formaldehyde) agarose gel.

Electrophoresis is performed in a submarine-type apparatus at 100 volts for in 1x Running Buffer (40 mM MOPS, 1 mM EDTA, 10 mM sodium acetate, pH 8.3, Product No. M 5755 diluted 10-fold) with buffer recirculation. Two bands are resolved, and the sizes are consistent with 18S and 28S ribosomal RNA.

Product Profile

Fragment Sizes

18S rRNA, approx. 2000 bases
28S rRNA, approx. 5300 bases

References

1. Sambrook, J. F., and Russell, D. W., Molecular Cloning: A Laboratory Manual, p. 202, (Cold Spring Harbor Laboratory Press, 1989).
2. Fasman, G. D., ed., Practical Handbook of Biochemistry and Molecular Biology, p. 464, (CRC Press, 1986).

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