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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) bromphenol 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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