



## Product Information

### RNA MARKER 0.2-10 KB

Product No. **R 7020**

Storage: -70 °C

#### PRODUCT SUMMARY

Suitable for use as a molecular weight marker for formaldehyde agarose gel electrophoresis.

**Usage:** 1-2  $\mu$ l per lane. See suitability assay for details.

**Concentration:** Approx. 1mg/ml

#### STORAGE BUFFER

- 10 mM Tris-HCl, pH 8.0
- 1 mM EDTA

#### 1 X TBE ELECTROPHORESIS BUFFER

- 89 mM Tris Borate, pH 8.3
- 2 mM EDTA

#### SUITABILITY ASSAY

RNA Marker sample solutions were prepared for electrophoresis as follows:

- 2-4  $\mu$ l RNA Marker, q.s. to 5  $\mu$ l with water (Rnase free)
- 3  $\mu$ l RNA Sample Loading Buffer (Product No. R 4268) 62.5% (v/v) Deionized Formamide, 1.14 M Formaldehyde, 1.25X MOPS-EDTA-Sodium Acetate Buffer (Product No. M 5755, diluted 1:8), 200  $\mu$ g/ml Bromphenol Blue, 200  $\mu$ g/ml Xylene Cyanole, 50 $\mu$ g/ml Ethidium Bromide
- 1  $\mu$ l 200 mM Potassium Acetate, pH 4.5

#### SUITABILITY ASSAY(continued)

The entire 9  $\mu$ l of RNA Marker solution was loaded with appropriate RNA markers on an agarose gel. Electrophoresis was performed in a mini submarine-type apparatus at 100 V for 2 hours in 1X TBE electrophoresis buffer. The gel was stained in 5  $\mu$ g/ml ethidium bromide for 15 minutes and destained 1 hour with shaking in water. Nine bands were resolved and the band pattern was consistent with the sizes listed below.

#### FRAGMENT SIZES (bases)

10000	1500
6000	1000
4000	500
3000	200
2000	

#### REFERENCES

- Sambrook, J., et al., Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory (1989), p. 7.43-7.45
- Fasman, G.D., ed., Practical Handbook of Biochemistry and Molecular Biology, CRC Press, (1986), p. 464.

The RNA marker sample solution was incubated at 65 °C for 10 minutes and immediately cooled on ice.

1/00