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Product Information

pBR322 Hae III Digest

Product no. **D 8397**

Lot no. 122K9065

Store at 2 – 8 °C

PRODUCT SUMMARY

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

A_{260}/A_{280} Ratio: 1.9

Lyophilized in: 1 mM Tris, pH 7.5, 1 mM EDTA, 1 mM NaCl

Concentration prior to lyophilization: 3.02 A_{260} units/ml

COMMENTS

Ethidium bromide background can be reduced by destaining 30-45 minutes in 1X electrophoresis buffer.

SUITABILITY ASSAY

pBR322 Hae III digest was prepared for electrophoresis as follows:

- 1 μ g pBR322 Hae III Digest
- 10 μ l gel loading solution (G 2526)
(0.05% w/v bromophenol blue,
40% w/v sucrose, 0.10 M EDTA,
pH 8.0)

Q.S. to 50 μ l total volume with sterile distilled water or storage buffer.

SUITABILITY ASSAY(continued)

0.2-0.3 μ g were loaded on a 10-20% acrylamide gradient gel. Gel electrophoresis was performed in 1X TBE (0.089 M Tris-borate, pH 8.3, 2 mM EDTA). The gel was run with appropriate DNA fragment size standards at 50 volts until the tracking dye was at the bottom of the gel. After staining 15-20 minutes in 1 μ g/ml ethidium bromide, 17 of 22(51-587 bp) bands were clearly resolved and the pattern was consistent with the expected fragment sizes.

Fragment Sizes: base pairs

587	123
540	104
504	89
458	80
434	64
267	57
234	51
213	21
192	18
184	11
124	8