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Product Information

pUC 18 Msp I DIGEST

Product Number **D 4797**

Lot Number 054K9071

Store below 0 °C

Product Description

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

Ratio A_{260}/A_{280} : 1.8

Concentration: 246 µg/ml

Storage Buffer

10 mM Tris-HCl, pH 8.0
1 mM EDTA

Suitability Assay

pUC18 Msp I digest was prepared for electrophoresis as follows:

0.2-0.3 µg pUC18 Msp I Digest
2 µl 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 7 µl total volume with sterile water.

0.1-0.3 µg were loaded on a 10-20% acrylamide gradient gel. Gel electrophoresis was performed in 1X TBE (0.089 M Tris-borate, pH 8.3, 0.002 M EDTA).

Suitability Assay(continued)

The gel was run with appropriate DNA fragment size standards at 100 volts until the tracking dye was at the bottom of the gel. After staining 15-20 minutes in 0.6 µg/ml ethidium bromide, 12 bands (501-26 bp) were clearly resolved and the pattern was consistent with the expected fragment sizes.

Fragment Sizes: base pairs (bp)

501	147
489	110
404	89
353	67
242	34
190	26

Comments

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

6/04