

CERTIFICATE OF ANALYSIS

For improved performance  
dye concentrations were changed

## Lambda DNA/Eco130I (StyI) Marker, 16

#SM0161      250 (5x50)µg

Lot:

Concentration:      0.5µg/µl

Supplied with:      2ml 6X Loading Dye Solution

Store at -20°C.

2

In total 7 vials.

### Description

Lambda DNA was completely digested with Eco130I, purified and dissolved in storage buffer.

The DNA Marker contains the following 11 discrete fragments (in base pairs): 19329\*, 7743, 6223, 4254\*, 3472, 2690, 1882, 1489, 925, 421, 74.

### Storage Buffer

10mM Tris-HCl (pH7.6), 1mM EDTA.

### 6X Loading Dye Solution

10mM Tris-HCl (pH 7.6), 0.03% bromophenol blue, 0.03% xylene cyanol FF, 60% glycerol and 60mM EDTA.

### Quality Control Assay Data

Agarose gel electrophoretic analysis of homogeneity of Eco130I fragmentation patterns.

Quality authorized by:

 Jurgita Zilinskiene

## RECOMMENDATIONS FOR USE

- Vortex gently just prior to use.
- Prepare the DNA Marker before loading:  
1µl (0.5µg) of the DNA Marker;  
1µl of 6X Loading Dye Solution;  
4µl of deionized water.
- Heat for 5min at 65°C and then cool on ice for 3min (see Note).
- Apply the prepared amount (6µl) of the DNA Marker on a 5mm lane of agarose gel.
- Following electrophoretic separation on gel, visualize the DNA bands by ethidium bromide staining.

### Note

- One vial (50µg) is sufficient for ~100 applications.
- Use 0.1µg (0.2µl) of the DNA Marker (before dilution) per 1mm of an agarose gel lane width.
- The cohesive ends of the 12nt *cos* site of bacteriophage lambda from fragments of 19329bp and 4254bp (indicated\*) may anneal and form an additional band of 23583bp. These fragments can be separated by heating at 65°C for 5min and then cooling on ice for 3min.

### PRODUCT USE LIMITATION.

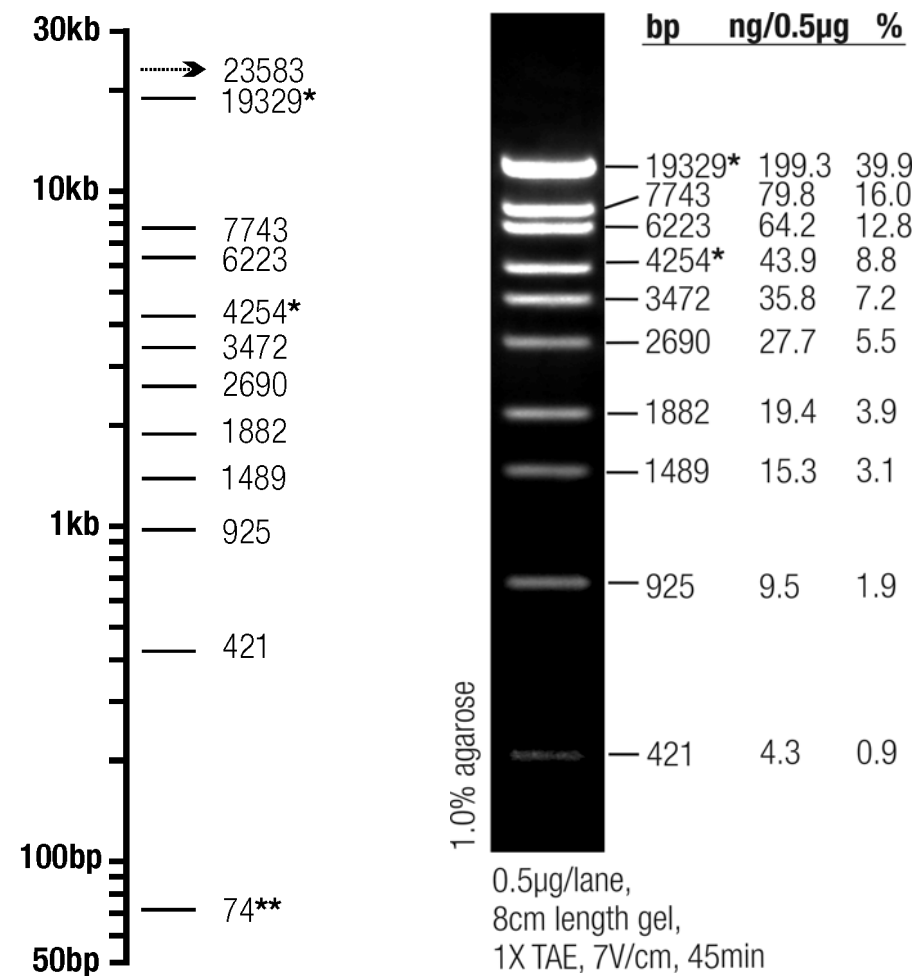
This product is developed, designed and sold exclusively for research purposes and *in vitro* use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Please refer to [www.fermentas.com](http://www.fermentas.com) for Material Safety Data Sheet of the product.

Revised 23.11.2004

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### Fragment Sizes



Fragments indicated\* – see Note above.  
The 74\*\* bp fragment is not visible on gel  
(it makes 0.2%)