

For improved performance  
dye concentrations were changed

**CERTIFICATE OF ANALYSIS**

# Lambda DNA/HindIII Marker, 2

**#SM0102** 1250(25x50) $\mu$ g

**Lot:**

Concentration: 0.5mg DNA/ml  
Supplied with: 10ml **6X Loading Dye Solution**

**Store at -20°C.**

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In total 35 vials.

## **Description**

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

The DNA Marker contains the following 8 discrete fragments (in base pairs): 23130\*, 9416, 6557, 4361\*, 2322, 2027, 564, 125.

## **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 HindIII fragmentation patterns.

**Quality authorized by:**



Jurgita Zilinskiene

## RECOMMENDATIONS FOR USE

- Vortex gently just prior to use.
- Prepare the DNA Marker before loading:  
1  $\mu$ l (0.5  $\mu$ g) of the DNA Marker;  
1  $\mu$ l of 6X Loading Dye Solution;  
4  $\mu$ l of deionized water.
- Heat for 5min at 65°C and then cool on ice for 3min  
(see Note).
- Apply the prepared amount (6  $\mu$ l) 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 (50  $\mu$ g) is sufficient for ~100 applications.
- Use 0.1  $\mu$ g (0.2  $\mu$ l) of the DNA Marker (before dilution) per 1mm of agarose gel lane width.
- The cohesive ends of the 12nt *cos* site of bacteriophage lambda from fragments of 23130 bp and 4361 bp (indicated\*) may anneal and form an additional band at 27491bp. 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.

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