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dye concentrations were changed

CERTIFICATE OF ANALYSIS

Lambda DNA/HindIII Marker, 2, ready-to-use

#SM0103 250(5x50) μ g (for 500 applications)

Lot:

Concentration: 0.1 μ g/ μ l

Supplied with: 2x1ml 6X Loading Dye Solution

**Store: at room temperature or at +4°C for periods
up to 6 months.**

For longer periods store at -20°C.

2

In total 7 vials.

Description

Lambda DNA/HindIII Marker, 2, is premixed with a storage and loading buffer at a total DNA concentration of 0.1 μ g/ μ l and can be directly applied onto an agarose gel.

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

Storage and Loading Buffer

10mM Tris-HCl (pH 7.6), 10mM EDTA, 0.005% bromophenol blue, 0.005% xylene cyanol FF and 10% glycerol.

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

Analysis of 0.5 μ g (5 μ l) of the DNA Marker on agarose gel by ethidium bromide staining generates 8 discrete bands pattern.

Quality authorized by:  Laima Samaliene

RECOMMENDATIONS FOR USE

- Vortex gently just prior to use and take 5µl of the DNA Marker.
- Heat for 5min at 65°C and then cool on ice for 3min (see Note).
- Apply 5µl (0.5µg) 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 (1µl) of ready-to-use DNA Marker per 1mm of agarose gel lane width.
- The cohesive ends of the 12nt *cos* site of bacteriophage lambda from fragments of 23130bp and 4361bp (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 for Material Safety Data Sheet of the product.

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