

CERTIFICATE OF ANALYSIS MassRulerTM High Range DNA Ladder, ready-to-use

#___ 2 x 500 μl (for 50-200 applications) Lot: __

Concentration:42.2 ng/μlSupplied with:1 ml 6X MassRuler[™] DNA Loading Dye

Store: at room temperature or at 4°C for up to 6 months. For longer periods store at -20°C.

In total 3 vials.

and accurate quantification and sizing of DNA fragments on agarose gels.

Description

The ladder contains the following 9 discrete fragments (in base pairs): 10000, 8000, 6000, 5000, 4000, 3000, 2500, 2000, 1500.

MassRuler[™] High Range DNA Ladder is designed for fast

The ladder is premixed with MassRuler[™] DNA Loading Dye and can be directly applied onto an agarose gel.

Storage and Loading Buffer

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

6X MassRuler[™] DNA Loading Dye

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

Quality Control Assay Data

Well-defined bands are formed during agarose gel electrophoresis.

The absence of nucleases is confirmed by a direct nuclease activity assay.

Quality authorized by:



Jurgita Zilinskiene

USO ISO 9001 14001 www.fermentas.com Rev



Protocol For Loading

Step 1: Mix gently

Step 2: Load 5-20 µl per gel lane.

Recommendations

- Do not heat before loading.
- For accurate DNA quantification:
 - load the same volumes of the DNA sample and the DNA ladder;
 - adjust the concentration of the sample such that the expected amount of DNA loaded is approximately equal to that of Ladder's band of a nearest size.
- Visualize DNA by staining with ethidium bromide or with SYBR[®] Green I.

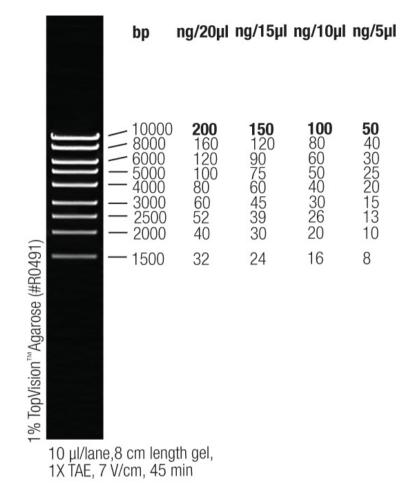
Note

The apparent intensity of bands containing equal ng quantities of DNA may differ in different horizontal sections of gel (diminishes from top to bottom).

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