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Product Information

DNA LADDER, DIRECTLOAD™, 100 bp (100-1000 bp)

Product No. **D 3687**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

TECHNICAL BULLETIN

Product Description

Suitable for use as an electrophoresis marker for DNA. Contains 10 bands ranging from 100 to 1,000 bp in exact 100 bp increments.

DNA Sizes: base pairs (bp)

1,000	500
900	400
800	300
700	200
600	100

Supplied as a DNA marker in 1x loading buffer containing marker dyes Orange G and xylene cyanol. Ready for use in agarose gels.

Components/Reagents

Storage Buffer: 5% glycerol, 4.2 mM EDTA, 0.09% orange G, and 0.0125% xylene cyanol.

Storage/Stability

This product is shipped at ambient temperature. Marker is stable for 12 months when stored at 2-8 $^{\circ}\text{C}$. For less frequent use, storage at $-20\text{ }^{\circ}\text{C}$ may increase shelf life.

Product Profile

Recommended load volume: 5 μl

Number of loads per vial: 75

Adjustments may be made for different well sizes and individual preferences.

Suitability Assay

5 μl of DirectLoad DNA Ladder were loaded on a 2.0% (w/v) agarose gel prepared with 1x Tris-borate-EDTA (1x TBE; Product No. T 9525) working buffer. The gel was run for approximately two hours at 70 volts. After staining in 0.5 $\mu\text{g/ml}$ ethidium bromide and subsequent destaining in water, 10 bands (100-1,000 bp) were clearly resolved and the pattern was consistent with the expected fragment sizes.

JLL/JWM 10/03

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