



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sia.com
sigma-aldrich.com

Product Information

DNA LADDER, DIRECTLOAD™, 1 KB (0.50-10 kb)

Product No. **D 3937**

Storage Temperature -20 °C

TECHNICAL BULLETIN

Product Description

Suitable for use as an electrophoresis marker for DNA. Supplied as a 250 µg vial in 1x loading buffer containing marker dyes bromophenol blue and xylene cyanol FF. Ready for use in agarose gels.

FRAGMENT SIZES: base pairs (bp)

10,000
8,000
6,000
5,000
4,000
3,000
2,500
2,000
1,500
1,000
500

Reagents

Storage Buffer: Solution in 2.5% Ficoll (Type 400), 0.0125% bromophenol blue, and 0.00625% xylene cyanol FF.

Storage/Stability

This product is shipped at ambient temperature. Marker is stable for 6 months when stored at -20 °C.

Product Profile

Recommended load volume: 5 µl

Number of loads per vial: 100

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

Suitability Assay

5 - 10 µl of DNA Ladder DirectLoad™ and 100 - 200 ng of appropriate DNA standards were loaded on a 0.75% (w/v) agarose gel prepared with 1x TBE (Product No. T 9525) running buffer. The gel was run for 2 hours at 70 volts. After ethidium bromide staining, 11 bands (500-10,000 bp) were clearly resolved and the pattern was consistent with the expected fragment sizes.

JLL/JWM 10/03

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.