

HyperLadder™ 50bp

Shipping: Room Temperature

Catalog numbers

Batch No.: See vial

BIO-33054: 100 Lanes

BIO-33039: 200 Lanes

BIO-33040: 500 Lanes

meridian BIOSCIENCE™

Storage and stability:

HyperLadder 50bp is shipped at room temperature. On arrival store at -20°C for optimum stability.

Expiry:

When stored under the recommended conditions and handled correctly, band quality is retained until the expiry date on the outer box label.

Safety precautions:

Please refer to the material safety data sheet for further information.

Quality control specifications:

HyperLadder 50bp is extensively tested quality prior to release.

Notes:

Suitable for research or further manufacturing use only.

Trademark:

HyperLadder is a trademark of Bioline

Features

- Easy size determination
- 15 sharp and bright bands from 50 bp – 2,000 bp
- Ready-to-use format
- Optional mass determination

Description

HyperLadder 50bp is a ready-to-use molecular weight marker, especially designed for easy size determination. This ready-to-use format reduces handling steps and saves time; simply transfer HyperLadder 50bp from the vial to the gel.

HyperLadder 50bp produces a pattern of 15 regularly spaced bands, ranging from 50 bp to 2,000 bp. To allow easy identification and orientation, the 300 bp, 10,00 bp and 20,00 bp bands have the highest intensity. Optionally the HyperLadder can be used for mass determination.

A 5x sample loading buffer is supplied for your convenience. Under no circumstances should it be used to dilute/load ladder.

Components

Product	100 Lanes	200 Lanes	500 Lanes
HyperLadder™ 50bp	500 µL	2 x 500 µL	5 x 500 µL
5x Sample Loading Buffer	1 mL	1 mL	1 mL

Associated Products

Product	Pack size	Cat. No.
Agarose	100 g	BIO-41026
Agarose Tablets	150 g	BIO-41028

Protocol

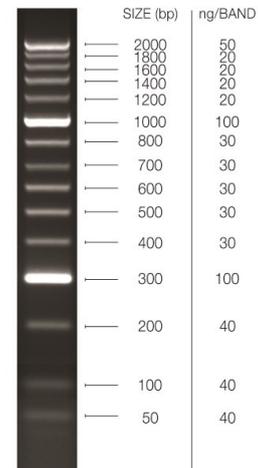
Vortex the tube and use 5 µL per lane.

Use 5x loading buffer for sample loading, under no circumstances should it be used for diluting the ladder. The blue dye in the loading buffer runs at approximately 4 bp on a 1% gel

Effective DNA Separation Range - Agarose Gels

Recommended % Agarose (w/v)	Effective Separation Range of Linear DNA* (bp)
0.3	5,000-60,000
0.5	1,000-20,000
0.7	800-12,000
1.0	500-10,000
1.2	400-7,000
1.5	200-3,000
2.0	100-2,000
2.5	50-100
3.0	10-75

* Circularized plasmids can be cut and linearized by an appropriate restriction enzyme to measure their molecular weight



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