

# HyperLadder™ I

Shipping: Room Temperature      Catalog numbers  
Exp. Date: See vial                BIO-33025: 200 Lanes  
Batch No.: See vial                BIO-33026: 500 Lanes

## Storage and stability:

HyperLadder I is shipped at room temperature. Stored at room temperature it is stable for 6 months, stored at +4°C it is stable for 12 months and stored at -20°C it is stable for 24 months from date of purchase. Avoid repeated freeze thawing cycles.

## Safety precautions:

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Please refer to the material safety data sheet for further information.



## DATA SHEET

### Features

- Easy size determination
- 14 bands from 200bp – 10,037bp
- Ready-to-use format
- Optional mass determination

### Description

HyperLadder I is a popular 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 I from the vial to the gel.

HyperLadder I produces a pattern of 14 regularly spaced bands, ranging from 200 to 10,037bp. To allow easy identification and orientation, the 1000 and the 10,037bp band has 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™ I	500µl	2 x 500µl	5 x 500µl
5x Sample Loading Buffer	1ml	1ml	1ml

### Protocol

Vortex the tube and use 5µl per lane.

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

### Composition

This marker is composed of a restriction digest plus one or more PCR products.

### Trouble Shooting

Ladders not sinking - vortex briefly.

### Associated Products

Product	Pack size	Cat. No.
Agarose	100g	BIO-41026
Agarose Tablets	150g	BIO-41028
DNA Loading Buffer, Blue	2 x 1ml	BIO-37045
DNA Loading Buffer, Red	2 x 1ml	BIO-37068
TriColor DNA Loading Buffer	2 x 1ml	BIO-37070

### Product Citations

1. Fogg, P.C., *et al. Nucl. Acids Res.* **39** (6), 2116-2129 (2011).
2. Puspitaningrum R., *et al. HAYATI J. Biosci.* **17**(3), 110-114 (2010).
3. Lynch, A. G., *et al. BMC Biotechnol.* **10**, 30 (2010).
4. Freilas, S.S., *et al. Sep. Purifi. Technol.* **65**, 95-104 (2009).
5. Jon, L. Hobman, J.L., *et al. J. Bacteriol.* **189**, 8786-8792 (2007).
6. Candolfi, M., *et al. Mol. Therapy* **14**, 371-381 (2006).
7. Hutchison, C.A., *et al. PNAS USA* **102**(48), 17332-17336 (2005).

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