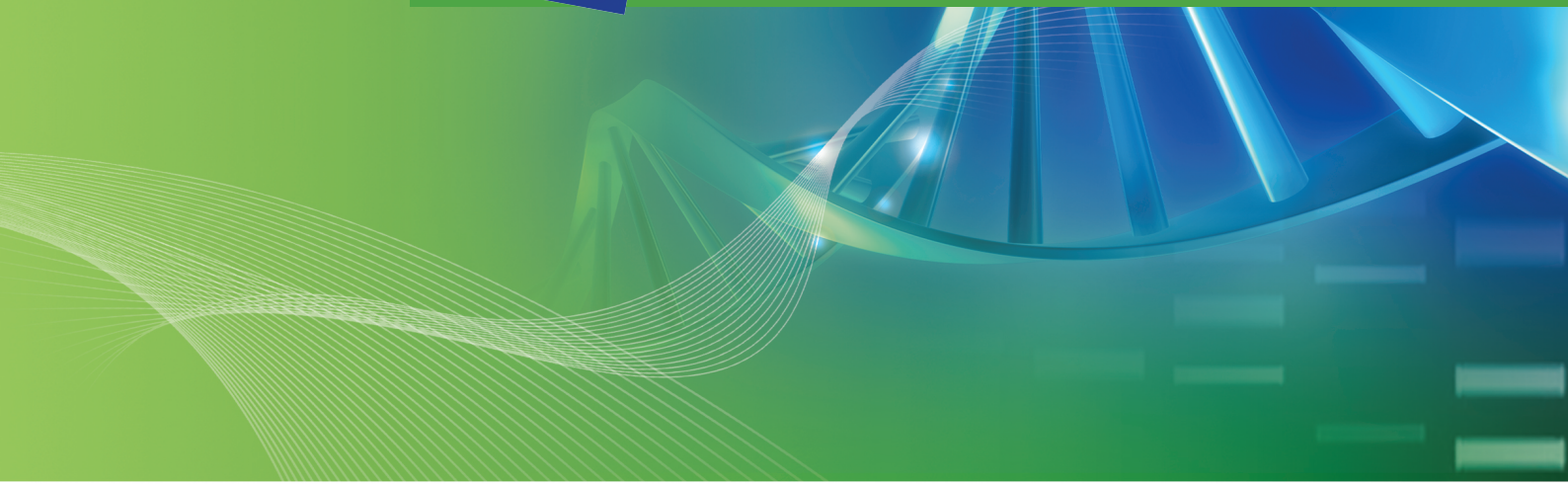
20150527
Rev.5

Bioneer
Healthier Future for Humanity with Genomic Technology

DNA Ladders and Markers

Convenient, Ready-to-load, Bright and Sharp

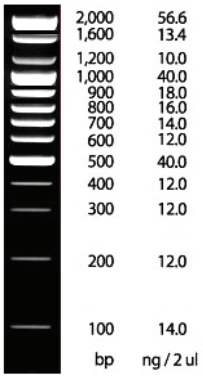


- Designed for size determination and approximate quantification of DNA fragments
- Ready-to-load, no need to add loading buffer
- Available in a wide range of fragment sizes
- Bright and sharp bands with brighter reference bands
- Stable for up to 6 months at room temperature

8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 306-220 Republic of Korea
Tel: (Korea) 1588-9788 (International) +82 - 42 - 930 - 8777 Email: sales@bioneer.com

BIONEER
Innovation • Value • Discovery

100 bp DNA Ladder

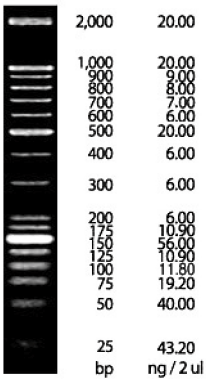


2.0% agarose gel stained with ethidium bromide

- Designed to determine the size of double stranded DNA from 100 to 2,000 base pairs.
- Consists of 13 bands. 10 double stranded DNA fragments ranging in size from 100 to 1,000 bp in 100 bp increments and 3 additional fragments at 1,200, 1,600, and 2,000 bp.
- Reference bands at 500, 1,000 and 2,000 bp are two to three times brighter for easy identification.

Concentration	135 ng/ul
Recommended Loading	1.5 - 2.0 ul / 5 mm lane width
Typical Number of Lanes	125 - 166 (5 mm lane width)
Size Range (bp)	100 - 2,000
Number of Bands	13

25/100 bp Mixed DNA Ladder

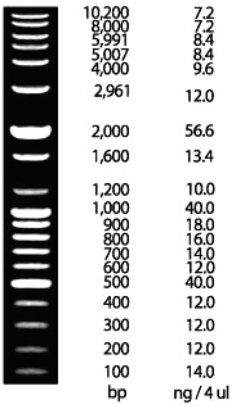


2.5% agarose (TBE buffer) gel - Not prestained with ethidium bromide

- Designed to determine the size of double stranded DNA from 25 to 2,000 base pairs.
- Consists of 17 bands. 8 double stranded DNA fragments ranging in size from 25 to 200 bp in 25 bp increments, 8 fragments from 300 to 1,000 bp in 100 bp increments , and an additional fragment at 2,000 bp.
- Reference bands at 150, 500, 1,000 and 2,000 bp are two to three times brighter for easy identification.

Concentration	150 ng/ul
Recommended Loading	2.0 ul / 5 mm lane width
Typical Number of Lanes	125 (5 mm lane width)
Size Range (bp)	25 - 2,000
Number of Bands	17

100 bp Plus DNA Ladder

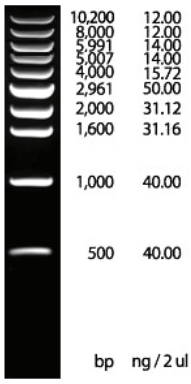


4 ul on 1% TBE agarose gel (Length :8.5 cm, stained with ethidium bromide)

- Designed to determine the size of double stranded DNA from 100 to 10,200 base pairs.
- Consists of 19 bands. 10 double stranded DNA fragments ranging in size from 100 to 1,000 bp in 100 bp increments and 9 fragments from 1,200 to 10,200 bp.
- Reference bands at 500, 1,000 and 2,000 bp are two to three times brighter for easy identification.

Concentration	80.7 ng/ul
Recommended Loading	3.0 - 4.0 ul / 5 mm lane width
Typical Number of Lanes	125 - 166 (5 mm lane width)
Size Range (bp)	100 - 10,200
Number of Bands	19

1 kb DNA Ladder

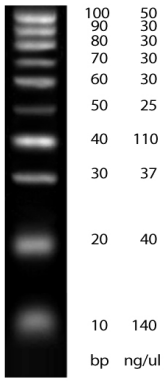


1.0% agarose gel (TAE buffer) stained with ethidium bromide

- Designed to determine the size of double stranded DNA ranging from 500 to 10,200 base pairs.
- Consist of 10 double stranded DNA fragments ranging in size from 500 to 10,200 bp.
- A reference band at 2.961 kb is approximately two to three times brighter for easy identification.

Concentration	130 ng/ul
Recommended Loading	1.5 - 2.0 ul / 5 mm lane width
Typical Number of Lanes	250 - 333 (5 mm lane width)
Size Range (bp)	500 - 10,200
Number of Bands	10

10 bp DNA Ladder

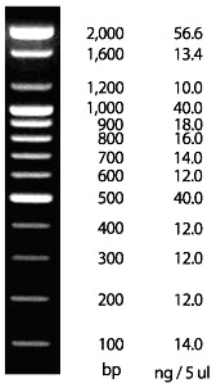


4.0% agarose(TBE buffer) gel stained withEthidium Bromide.

- Designed to determine the size of double stranded DNA from 10 to 100 base pairs.
- Consists of 9 double stranded DNA fragments ranging in size from 10 to 100 bp in 10 bp increments.
- A reference band at 40 bp is two to three times brighter for easy identification.

Concentration	522 ng/ul
Recommended Loading	1.5 - 2.0 ul / 5 mm lane width
Typical Number of Lanes	50 - 66 (5 mm lane width)
Size Range (bp)	10 - 100
Number of Bands	10

AccuLadder™ 100 bp DNA Size Markers



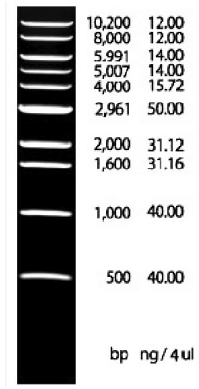
2.0% agarose gel stained with ethidium bromide

High resolution - brighter and sharper ▶▶

- Designed to determine the size of double stranded DNA from 100 to 2,000 base pairs. *AccuLadder*™ is sharper and brighter than our standard 100 bp ladder.
- Consists of 13 bands. 10 double stranded DNA fragments ranging in size from 100 to 1,000 bp in 100 bp increments and 3 additional fragments at 1,200, 1600, and 2,000 bp.
- Reference bands at 500, 1,000 and 2,000 bp are two to three times brighter for easy identification.

Concentration	54 ng/ul
Recommended Loading	4 - 5 ul / 5 mm lane width
Typical Number of Lanes	128 - 160 (5 mm lane width)
Size Range (bp)	100 - 2,000
Number of Bands	13

AccuLadder™ 1 kb DNA Size Markers



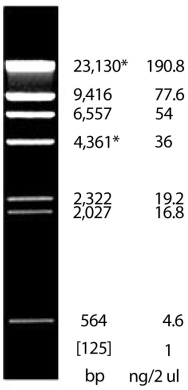
1.0% agarose gel stained with ethidium bromide

High resolution - brighter and sharper

- Designed to determine the size of double stranded DNA ranging from 500 to 10, 200 base pairs. *AccuLadder*™ is sharper and brighter than our standard 1 kb ladder.
- Consist of 10 double stranded DNA fragments ranging in size from 500 to 10,200 bp.
- A reference band at 2.961 kb is approximately two to three times brighter for easy identification.

Concentration	65 ng/ul
Recommended Loading	4 - 5 ul / 5 mm lane width
Typical Number of Lanes	200 - 250 (5 mm lane width)
Size Range (bp)	500 - 10,200
Number of Bands	10

Lambda DNA/*Hind* III Markers

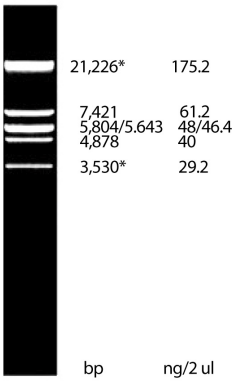


0.7% agarose gel stained with ethidium bromide

- Created by digesting lambda DNA with *Hind* III.
- Consist of 8 double stranded DNA fragments ranging in size from 125 to 23,130 base pairs.

Concentration	200 ng/ul
Recommended Loading	1-2 ul / 5 mm lane width
Typical Number of Lanes	250-500 (5 mm lane width)
Size Range (bp)	125 - 23,130
Number of Bands	8

Lambda DNA/*EcoR* I Markers



0.7% TAE agarose gel stained with ethidium bromide

- Created by digesting lambda DNA with *EcoR* I.
- Consist of 6 double strand DNA fragments ranging in size from 3,530 to 21,226 base pairs.

Concentration	200 ng/ul
Recommended Loading	1-2 ul / 5 mm lane width
Typical Number of Lanes	250-500 (5 mm lane width)
Size Range (bp)	3,530 - 21,226
Number of Bands	6

Lambda DNA/*EcoR* I + *Hind* III Markers

0.7% TAE agarose gel stained with ethidium bromide

- Created by digesting lambda DNA with *EcoR* I and *Hind* III.
- Consist of 13 double strand DNA fragments ranging in size from 125 to 21,226 base pairs.

Concentration	200 ng/ul
Recommended Loading	1-2 ul / 5 mm lane width
Typical Number of Lanes	250-500 (5 mm lane width)
Size Range (bp)	125 - 21,226
Number of Bands	13

Notice to Purchaser

ALL PRODUCTS: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Ordering Information

Cat. No.	Product Name	Details
Ladders		
D-1030	100 bp DNA Ladder	250 ul (135 ng/ul)
D-1031	100 bp DNA Ladder	1,250 ul (250 ul x 5)
D-1020	25/100 bp Mixed DNA Ladder	250 ul (150 ng/ul)
D-1021	25/100 bp Mixed DNA Ladder	1,250 ul (250 ul x 5)
D-1035	100 bp Plus DNA Ladder	500 ul (80.75 ng/ul)
D-1036	100 bp Plus DNA Ladder	2,500 ul (500 ul x 5)
D-1040	1 kb DNA Ladder	500 ul (130 ng/ul)
D-1041	1 kb DNA Ladder	2,500 ul (500 ul x 5)
D-1010	10 bp DNA Ladder	100 ul (522 ng/ul)
AccuLadders™		
D-1030-1	*AccuLadder*™ 100 bp DNA Size Marker	640 ul (54 ng/ul)
D-1040-1	*AccuLadder*™ 1 kb DNA Size Marker	1000 ul (65 ng/ul)
Markers		
D-1050	Lambda DNA/*Hind* III Markers	500 ul (0.2 ug/ul)
D-1060	Lambda DNA/*EcoR* I Markers	500 ul (0.2 ug/ul)
D-1070	Lambda DNA/*EcoR* I + *Hind* III Markers	500 ul (0.2 ug/ul)

Contact Us

Bioneer Corporation
8-11, Munpyeongseo-ro, Daedeok-gu, Daejeon
306-220 Republic of Korea
Tel: (Korea)1588 - 9788
(International) + 82 - 42 - 930 - 8777
Fax: + 82 - 42 - 930 - 8688
E-mail: sales@bioneer.com

Bioneer R&D Center
B-702, Korea Bio Park Bldg., 700,
Daewangpangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 463-400, Republic of Korea
Tel: + 82 - 31 - 628 - 0500
Fax: + 82 - 31 - 628 - 0555

Bioneer, Inc.
1301 Marina Village Parkway, Suite 110,
Alameda, CA, 94501 USA
Toll free: + 1 - 877 - 264 - 4300
Fax: + 1 - 510 - 865 - 0350
E-mail: order.usa@bioneer.us.com

DNA Ladders and Markers Selection Chart