Trans2K® DNA Marker

Cat.No. BM101

Storage: at 2-8ºC for six months; at -20ºC for two years

Concentration: 0.07 mg/ml

Description

Trans2K® DNA Marker is a premixed, ready-to-load molecular weight marker containing eight linear double-stranded DNA fragments. The DNA Ladder is suitable for use as molecular weight standards for agarose gel electrophoresis. The DNA Ladder contains 100 bp -2.0 kb DNA fragments. The 750 bp band (100 ng/5 µl) has doubled intensity than other bands to serve as reference band.

Highlights

• Ready-to use molecular weight marker for DNA size range of 100 bp to 2.0 kb.

• All bands from restriction enzyme digested plasmids.

• Brighter 750 bp reference band.

Composition

100 bp, 250 bp, 500 bp, 750 bp (100 ng/5 µl, the double intensity band), 1,000 bp, 2,000 bp

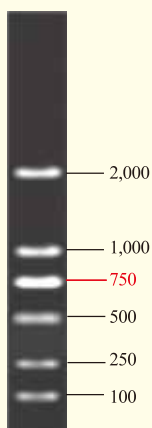Storage Buffer

10 mM Tris-HCl (pH 8.4), 10 mM EDTA, 0.02% bromophenol blue, 5% glycerol

Notes

• In general, we recommend to use 1 µl Trans2K® DNA Marker per mm of gel lane, or 5 µl per gel lane.

• The Trans2K® DNA Marker is not intended for precise quantification of DNA mass but can be used for estimating the molecular weight of linear, double-stranded DNA fragments.

• Do not use the Trans2K® DNA Marker with polyacrylamide gels.

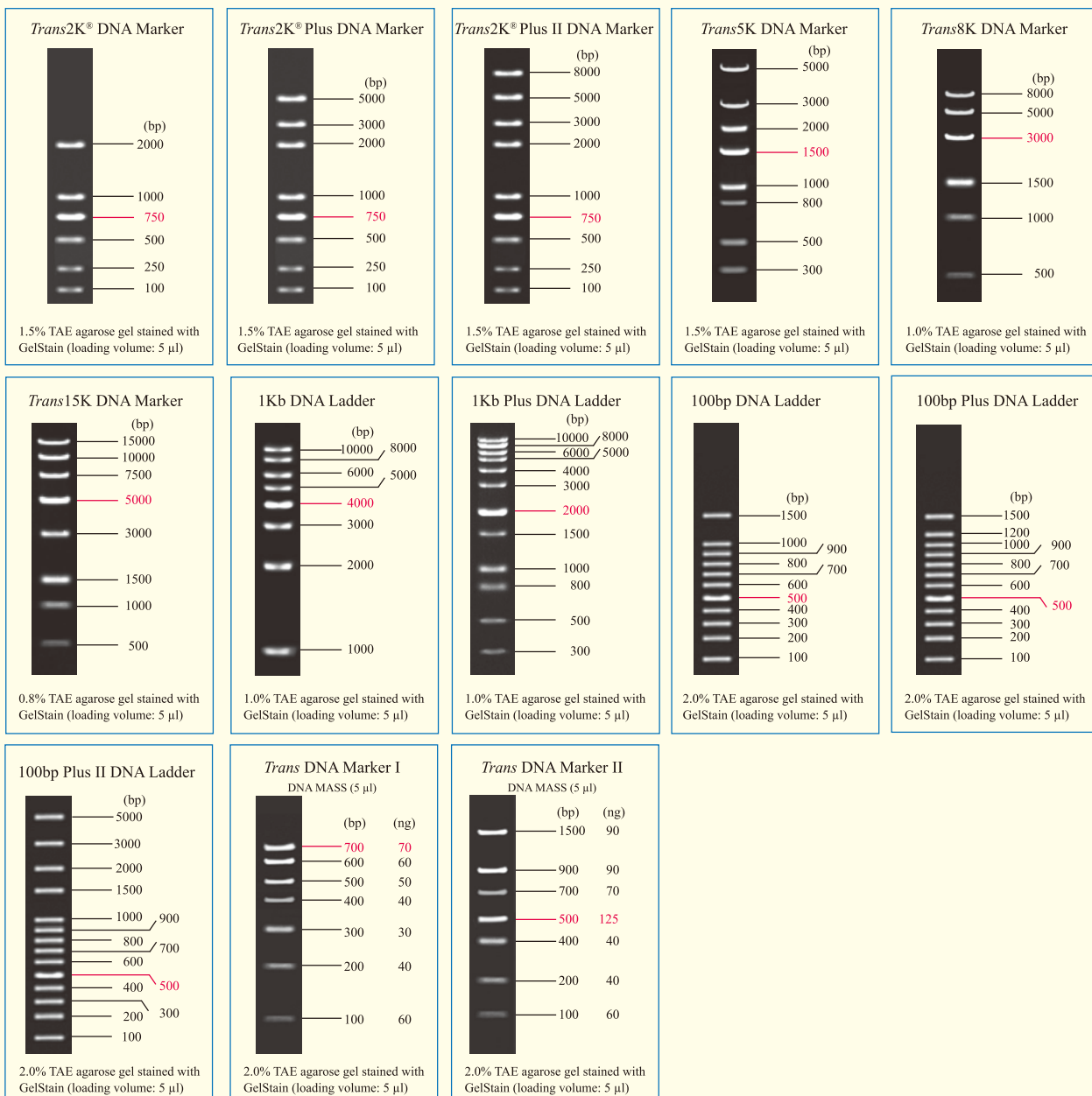• For long term storage, store at -20°C. If stored at -20°C, mix well after thawing.

Trans2K® DNA Marker (5 µl)

1.5% TAE agarose gel stained with GelStain

(loading volume: 5 µl)

Recommend Agarose Gel Percentages for Trans DNA Markers

DNA Marker	Agarose	DNA Marker	Agarose
*Trans*2K® DNA Marker	1.5%	1Kb DNA Ladder	1.0%
*Trans*2K® Plus DNA Marker	1.5%	1Kb Plus DNA Ladder	1.0%
*Trans*2K® Plus II DNA Marker	1.5%	100bp DNA Ladder	2.0%
*Trans*5K DNA Marker	1.5%	100bp Plus DNA Ladder	2.0%
*Trans*8K DNA Marker	1.0%	100bp Plus II DNA Ladder	2.0%
*Trans*15K DNA Marker	0.8%	*Trans* DNA Marker I	2.0%
		Trans DNA Marker II	2.0%

*Trans*2K® DNA Marker

(bp)
2000
1000
750
500
250
100

1.5% TAE agarose gel stained with GelStain (loading volume: 5 µl)

*Trans*2K® Plus DNA Marker

(bp)
5000
3000
2000
1000
750
500
250
100

1.5% TAE agarose gel stained with GelStain (loading volume: 5 µl)

*Trans*2K® Plus II DNA Marker

(bp)
8000
5000
3000
2000
1000
750
500
250
100

1.5% TAE agarose gel stained with GelStain (loading volume: 5 µl)

*Trans*5K DNA Marker

(bp)
5000
3000
2000
1500
1000
800
500
300

1.5% TAE agarose gel stained with GelStain (loading volume: 5 µl)

*Trans*8K DNA Marker

(bp)
8000
5000
3000
1500
1000
500

1.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

*Trans*15K DNA Marker

(bp)
15000
10000
7500
5000
3000
1500
1000
500

0.8% TAE agarose gel stained with GelStain (loading volume: 5 µl)

1Kb DNA Ladder

(bp)
10000 8000
6000 5000
4000
3000
2000
1000

1.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

1Kb Plus DNA Ladder

(bp)
10000 8000
6000 5000
4000
3000
2000
1500
1000
800
500
300

1.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

100bp DNA Ladder

(bp)
1500
1000 900
800 700
600
500
400
300
200
100

2.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

100bp Plus DNA Ladder

(bp)
1500
1200
1000 900
800 700
600
500
400
300
200
100

2.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

100bp Plus II DNA Ladder

(bp)
5000
3000
2000
1500
1000 900
800 700
600
400 500
200 300
100

2.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

Trans DNA Marker I

DNA MASS (5 µl)

(bp)	(ng)
700	70
600	60
500	50
400	40
300	30
200	40
100	60

2.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

Trans DNA Marker II

DNA MASS (5 µl)

(bp)	(ng)
1500	90
900	90
700	70
500	125
400	40
200	40
100	60

2.0% TAE agarose gel stained with GelStain (loading volume: 5 µl)

FOR RESEARCH USE ONLY