For research purpose only. Not for use in diagnostic procedures for clinical purposes. For IN VITRO USE ONLY.

ISO 9001/14001 Certified Company

MBI Evolution SiZer™ DNA Markers

DESCRIPTION

MBI Evolution supplies a wide range of products for accurate size and mass estimations (quantitation) of nucleic acid fragments. Nucleic Acid Markers are available for sizing linear, or supercoiled DNA and single-stranded RNA fragments. A variety of these markers are available in the ready-to-use SiZer™ formats.

MBI Evolution SiZer™ DNA Markers are ideal for determining the size of double-stranded DNA from 60~10,000bp base pairs. The MBI Evolution SiZer™ DNA Markers consist of 7 ~ 15linear double-stranded DNA fragments. Several fragments are present at increased intensity to allow easy identification. All fragments are precisely quantified and mixed during the production.

For 5 µl loading, all fragments except typical band DNA fragments are 40 ng. The typical band of DNA fragments is 100 ng. These ladders are pre-mixed with loading dye and are ready to use.

All DNA Markers can be stained with RedSafe™ Nucleic Acid Staining Solution, ethidium bromide (EtBr) or other DNA stains.

CHARACTERISTICS

- Ideal for determining the size of DNA
- Stable for more than 12 months at - 20 °C
- Ready to use without any handlings.

KIT CONTENTS

Product	Contents	Cat. No.
SiZer™-20 DNA Marker	0.3 ml	MBI 13960
SiZer™-50 plus DNA Marker	0.5 ml	MBI 139621
SiZer™-100 DNA Marker	0.5 ml	MBI 13962
SiZer™-1000 DNA Marker	0.5 ml	MBI 13963
SiZer™-1000 plus DNA Marker	0.5 ml	MBI 13964
SiZer™-15K DNA Marker	0.5 ml	MBI 13965
SiZer™- λDNA/HindIII DNA Marker	0.5 ml	MBI 13966

STORAGE

- Store at 4°C and stable for more than 6 months. For more stable use, should be eliquoted and then stored at -20°C. (stable for more than 12 months)

GENERAL USE

- No DNase and RNase detected.
- Load 5 µl per each well of Agarose gel.

QUALITY CONTROL

Well-defined bands are formed during agarose gel electrophoresis. The DNA concentration is determined spectrophotometrically.

The absence of nucleases is confirmed by a direct nuclease activity assay.

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

NOTICE BEFORE USE

- Do not heat before loading
- For quantification, adjust the concentration of the sample to equalize, it approximately with the amount of DNA in the nearest band of the ladder.
- Visualize DNA by staining RedSafe™, ethidium bromide (EtBr) or other DNA stains.

DETAIL INFORMATION

	Size range (bp)	Conc. (ng/µl)	Typical bands	Other bands	Loading Vol.	Band number	Contents
SiZer™ -20	60-300	128	100ng/5µl	40ng/5µl	5µl	13	60,80,**100**, 120,140, 160, 180,**200**,220, 240,260, 280,300
SiZer™ -50plus	50-500	128	100ng/5µl	40ng/5µl	5µl	13	50,100,150, 200, **250**, 300, 400,**500**, 600, 700,800,900,1000
SiZer™ -100	100-1500	100	100ng/5µl	40ng/5µl	5µl	11	100,200,300, 400, **500**, 600, 700,800, 900, 1000,1500
SiZer™ -1000	250-10000	120	100ng/5µl	40ng/5µl	5µl	12	250, 500, 750, 1000,1500, **2000**, 3000,4000, **5000**, 6000,8000, 10000
SiZer™ -1000 plus	100-10000	144	100ng/5µl	40ng/5µl	5µl	15	100,200,300, 400,**500**, 700, 1000,1500,2000, **3000**,4000,5000, 6000,8000, 10000
SiZer™ -15K	250-15000	85	125ng/5µl	50ng/5µl	5µl	7	250, 1000, **2500**, 5000, 7500, 10000, 15000
SiZer™ - λDNA/HindIII	125-23130	100	350ng/5µl	-	5µl	8	125, 564, 2027, 2322, 4361, 6557, 9416, 23130

ELECTROPHORESIS

- The 5 µl of ladder DNA was loaded, and then electrophoresed for 1hr at appropriate concentration of gel