

GenLadder XLarge - 25kbp DNA marker

Ready-to-use synthetic DNA Size Marker with fragments from 250bp to 25000bp.

Component	Cat#	GM3084.0050	GM3084.5050	Colour code of cap
		50µg	5x 50µg	
GenLadder XLarge - 25kbp DNA marker		500µL (0.1µg/µL)	5x 500µL (0.1µg/µL)	

Description

The Genaxxon GenLadder XLarge consists of a unique combination of a number of proprietary plasmids digested with restriction enzymes and PCR products to yield a combination of 14 fragments, ideal for use as molecular weight standard for agarose gel electrophoresis of DNA-fragment sizes from 250bp up to 25000bp.

The marker is pre-mixed, ready-to-use containing bromophenol blue and xylene cyanol FF as tracking dyes which serve as visual aids for monitoring the progress of migration during gel electrophoresis.

This DNA marker consists of linear double-stranded DNA. All bands light up with almost the same intensity with the exception of the 1000bp and 3000bp band, which have increased intensity relative to the other bands to improve the correlation possibilities of each band. Each band is exact with respect to DNA size. No ambiguous bands are visible.

DNA Mass (ng / 5 µl)	Base Pairs	Fragment sizes and amount of DNA per band	
		Fragment sizes	Amount of DNA per band
16	— 25K	25000bp	16ng/5µL
28	— 10K	10000bp	28ng/5µL
28	— 8K	8000bp	28ng/5µL
28	— 6K	6000bp	28ng/5µL
28	— 5K	5000bp	28ng/5µL
18	— 4K	4000bp	18ng/5µL
92	— 3K	2x3000bp	92ng/5µL
34	— 2.5K	2500bp	34ng/5µL
34	— 2K	2000bp	34ng/5µL
20	— 1.5K	1500bp	20ng/5µL
92	— 1K	2x1000bp	92ng/5µL
23	— 750	750bp	23ng/5µL
30	— 500	500bp	30ng/5µL
45	— 250	250bp	45ng/5µL

0.7 % TAE agarose gel

Stability and Storage

Very stable in the delivered form at a constant temperature of -20°C.

It is not recommended to thaw and freeze.

Repeat thaw-freeze cycles (> 10 times) will harm the DNA-marker.

Store the DNA marker at -20°C.

Concentration

The total concentration of the DNA marker is about 0.1µg/1µL (104µg/mL).

Marker is dissolved in loading buffer containing bromophenol blue and xylene cyanol FF as tracking dyes.

Storage buffer: 10mM Tris-HCl pH8.0, 10mM EDTA.

Loading

We recommend loading 0.5 - 0.6µg (5 - 6µL) per lane.

Related Products

Genaxxon bioscience offers also different [DNA-Polymerases](#), [Agaroses](#) and [dNTPs](#).

Please visit our web-page for details: www.genaxxon.com.