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# GenLadder XLarge - 25kbp DNA marker

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

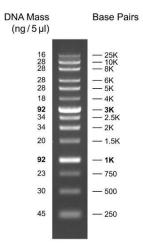
	Cat#	GM3084.0050	GM3084.5050	Colour code of cap
Component		50µg	5x 50µg	_
GenLadder XLarge - 25kbp DNA marker		500μL (0.1μg/μL)	5x 500μL (0.1μg/μL)	

#### 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.



### 0.7 % TAE agarose gel

# Fragment sizes and amount of DNA per band

Fragment sizes	Amount of DNA per band
25000bp	16ng/5µL
10000bp	28ng/5µL
8000bp	28ng/5µL
6000bp	28ng/5µL
5000bp	28ng/5µL
4000bp	18ng/5µL
2x3000bp	92ng/5µL
2500bp	34ng/5µL
2000bp	34ng/5µL
1500bp	20ng/5μL
2x1000bp	92ng/5µL
750bp	23ng/5µL
500bp	30ng/5µL
250bp	45ng/5µL

## Stability and Storage

Very stable in the delivered form at a constant temperature of -20  $^{\circ}$  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  $0.1\mu g/1\mu L$  ( $104\mu g/mL$ ).

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 - 0.6 $\mu$ g (5 - 6 $\mu$ L) per lane.

### **Related Products**

Genaxxon bioscience offers also different <u>DNA-Polymerases</u>, <u>Agaroses</u> and <u>dNTPs</u>. Please visit our web-page for details: <u>www.genaxxon.com</u>.

We Aim for Your Success.

- 1 -