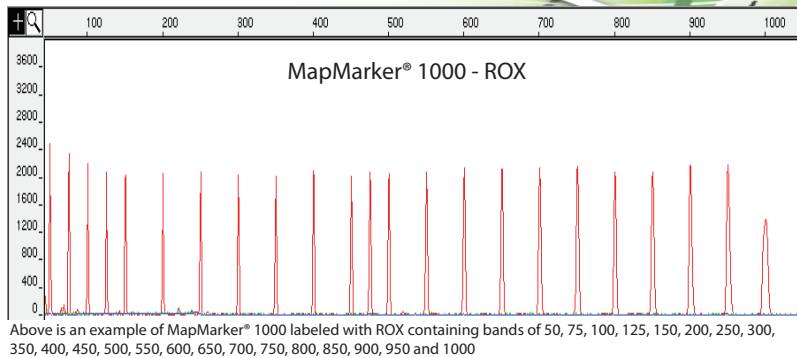


# SIZING STANDARDS AND MARKERS

## MapMarker® The Next Generation in Single-Stranded Fluorescent DNA Sizing Standards



Accurate ■ Consistent ■ Precise ■ Compatible ■ Flexible

MapMarker® DNA sizing standards are sets of high quality fluorescently labeled DNA fragments designed to provide consistent intensities and migration patterns for DNA sizing standards and are compatible with the most commonly used fluorescent-based separation instruments systems, including capillary based gel electrophoresis systems. MapMarker® standards contain bands of singular DNA strands labeled with a single fluorophore, ranging from 50 to 1000 base pairs. The labeled DNA fragments are uniformly spaced to provide accurate base calling and precision sizing of samples. The standards are available with all of the most commonly used fluorescent dyes, including rhodamine, tetramethylrhodamine, x-rhodamine, fluorescein and Radiant Dye 632 (orange channel). Custom dyes and configurations are also available, visit [www.bioventures.com](http://www.bioventures.com) to create a custom MapMarker®.

MapMarker® fluorescent standards are evaluated for resolution, intensity and background on denaturing polyacrylamide sequencing gels using laser excitation. They are free of extraneous peaks over their entire sizing range and are free of "pull up" signal in other channels. Additionally, these markers produce consistent within run and between run sizing within their size range creating a size curve that is linear, where the R<sup>2</sup> value is linear.

MapMarker® 1000 has been found to be very valuable within the research community for applications such as T-RFLP and forensic genotyping. During the process of T-RFLP some of the resulting products are longer than the typical 500bp that are found in most fluorescent based sizing standards. The MapMarker®1000 has filled this need by providing accurate sizing up to the 1000 base pair range.

MapMarker® standards are stable for a minimum of 18 months when stored in the dark at 4°C.

### Ordering Information:

| Catalog Number       | Description  | Size                                     |
|----------------------|--|--|
| MM-400               | MM 400 contains 20 discrete DNA fragments ranging in size from 70 to 400 bases at 8fmol/band/ul. They are uniformly spaced at 70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, and 400 base pairs.  | 400ul for 800 lanes<br>(load 0.5ul/lane) |
| MM-1000              | MM 1000 contains 23 discrete DNA fragments ranging in size from 50 to 1000 bases at 8fmol/band/ul. The fragments are 50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 475, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950 and 1000 base pairs.   | 400ul for 800 lanes<br>(load 0.5ul/lane) |
| MM-1000XL            | MM1000XL contains 23 discrete DNA fragments ranging in size from 50 to 1000 bases at 16fmol/band/ul. The fragments are 50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 475, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950 and 1000 base pairs.   | 200ul for 800 lanes<br>(load 0.5ul/lane) |
| Custom Configuration | MapMarker® Custom standards are available in a size range of 30-2000bp. The markers can be brought to various concentrations depending on your specifications. Once your custom configuration is manufactured, it is tested for concentration, resolution and background. Custom markers from BioVentures are economical due to cost reduction by incorporating only the necessary bands. Call customer service or create online at <a href="http://www.bioventures.com">www.bioventures.com</a> |  |

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