



Part Number:	MRK500 ROX 500bp ladder, 800 assays @ 0.5 μ l
Version:	3.5
Storage:	+4.0°C in the dark
Related Accessories:	MFK1000, MRK1000, capillary and capillary arrays, plates, combs, spacers, microCLEAN, microLYSIS DNA clean up, cell lysis and purification reagents.

Please Note: As of July 28, 2008, we have added extra marker positions at 425 and 475 base pairings to enhance accuracy of base calling, as listed below. Please adjust your settings accordingly.

MRK500 is a ROX labeled 500 nucleotide ladder containing 19 ssDNA fragments from 50 to 500 nucleotides with 25nt spacing. Each fragment appears as a single peak under denaturing conditions. Each vial contains 800 μ l, with a recommended loading of 1 μ l per lane.

MRK500 contains the following sized bands:

70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 425, 450, 475, 490, and 500 base pairs. All ladders are evaluated for resolution and intensity.

Directions for gels and capillary systems:

1. Combine 0.5 μ l ROX Ladder, 0.5 μ l tracking dye, 2.5 μ l deionized formamide and 1-2 μ l of sample.
2. A marker-dye master mix can be prepared by combining the above components in suitable quantities for the number of samples being analyzed.
3. After combining samples with marker/dye/formamide mix, the mixture should be briefly vortexed followed by brief centrifugation and denatured at 95°C for 5 minutes, then cool to 4°C.
4. Load from 1-3 μ l of comined material per lane, depending on well capacity.