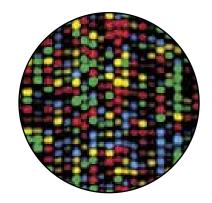
PROTOCOL

ROX 500bp ladder





Part Number: MRK500 ROX 500bp ladder, 800 assays @ 0.5µl

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 800µl, with a recommended loading of 1µl 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 0.5µl ROX Ladder, 0.5µl tracking dye, 2.5µl deionized formamide and 1-2µl 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 and denatured at 95°C for 5 minutes, then cool to 4°C.
- 4. Load from 1-3µl of comined material per lane, depending on well capacity.