



## Red 500 Fluorescent Size Standard

User manual

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### Product and Company Information

**Product name:** Red 500 Fluorescent Size Standard (p/n DSMR-100)  
**Product use:** For Research Use Only  
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### Description

The Red 500 Fluorescent Size Standard is a fluorescent labeled ultra-accurate size standard for the reproducible sizing of fragment analysis peaks on any ABI Genetic Analyzer with a five-dye spectral calibration. The standard contains 16 Red dye-labeled, single-stranded fragments in the 45-595 nucleotides range with basepair lengths of 35, 50, 75, 100, 139, 150, 160, 200, 250, 300, 340, 350, 400, 450, 490 and 500 bp.

The size standard can be used for a variety of applications like Microsatellites, MLPA, Fragment Length analysis, Fragment Length Polymorphisms etc. Each of the DNA fragments is labeled with a ROX fluorophore resulting in a sharp Red peak under denaturing conditions. With this size standard, your own custom marker fragments can be labeled with the dyes FAM™, VIC® , NED™ or PET® (G5 filterset, Life Technologies) or with FAM™, ZEL™, SOL™, FER™ (B5 filterset, Biolegio/Nimagen) . Each kit contains enough standard for at least 800 analyses.

### Protocol

Before use, mix the contents of each tube thoroughly and centrifuge briefly to collect the liquid at the bottom of the tube.

Typical loading mix: 0.5 µl (diluted) sample, 0.5 µl Size Standard and 9 µl Super-DI or Hi-Di™ Formamide. This cocktail should be considered as a starting point only. Optimize these ratios if necessary, based on your experimental results. If needed, extend the time for datacollection in your instrument software, to obtain collection of the full length up to 500 bp.

