

Product Information

D800 Ladder, D800 Loading Buffer & Diluent

	D800 Ladder	D800 Loading Buffer	ScreenTape Diluent
Catalogue Number	ST202	ST200	ST204
Concentration	20 ng/μL	12 ng/μL	
Quantity	75 μL	500 μL	500 μL
Storage	4 °C	4 °C	4 °C

Description:

The ScreenTape® D800 Ladder and Loading Buffer should be used with D800 ScreenTape in the Lab901 TapeStation. The DNA ladder consists of 7 fragments between 25 base pairs and 1000 base pairs. The Loading Buffer contains 2 DNA fragments at 25 base pairs and 1000 base pairs. Lab901 reagents ST202 and ST200 contain SYBR® Green I nucleic acid gel stain*.

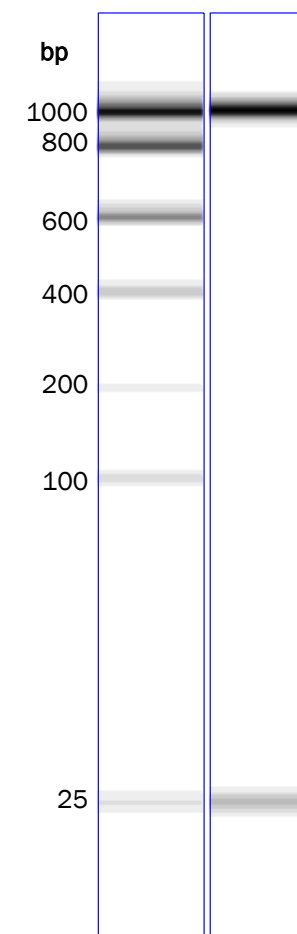
Recommended Procedure:

The D800 ladder should be used neat. Your sample should be mixed 1:4 with the Loading Buffer. The TapeStation™ will load 1 μL from a minimum of 3 μL of ladder or sample.

Samples containing low concentrations of DNA may need to be mixed 1:1 with the Loading Buffer. Samples containing high concentrations of DNA may need to be diluted with the ScreenTape Diluent before mixing with the Loading Buffer. See the Lab901 ScreenTape System user manual or www.lab901.com for more information.

Quality Control:

For the ladder, ScreenTape analysis shows that the bands between 25 and 1000 bp are distinguishable. Both bands of 1000 bp and 25 bp are present in the Loading Buffer. Please contact Lab901 with batch information for the relevant certificates of analyses.



D800 Ladder & Loading Buffer
1μL / lane
Separated on ScreenTape D800

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Buffer and salt compositions may affect the way a sample separates on ScreenTape compared to the Ladder. If unexpected sizing is returned, try mixing the Ladder with the same buffer as the samples. This should be in the same ratio as the samples have been mixed with the Loading Buffer.

The migration of DNA can also be affected by sequence as well as size on polyacrylamide matrices (1, 2). Fragments rich in A and T nucleotides can migrate slower than others.

1. Hsieh, C., et. al. (1991) *Mol. Gen.Genet.* 225, 25.
2. Stellwagen, N.C. (1983) *Biochemistry* 22, 6186.

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