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single-stranded scaffold DNA type p4844
2.0 ml at 400 nM

Conc.: 400 nM

Store at -20°C

Vol.: 2000 µl

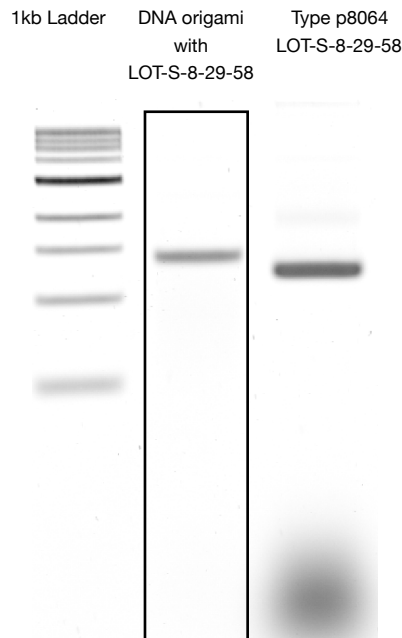
Amount: 800 pmol (1197 µg)

Product No.: PRO-S-8-19-2ML-400nM

Lot No.: LOT-S-8-29-58

Description: 800 pmol of single-stranded, circular DNA. The single-stranded viral DNA is isolated from a M13mp18 derivative. M13mp18 is a M13 lac phage vector. Length 4844 bases. See below for the sequence of bases. Volume is sufficient for 400 'standard' (20 nM, 100 µl) DNA origami folding reactions.

Normalised to 400 nM (599 µg/ml) concentration. Dissolved in buffer containing 10 mM TRIS-BASE, 1 mM EDTA. Ready to use for DNA self-assembly experiments. Quality control by agarose gel electrophoresis. Let equilibrate after thawing. Avoid shearing, pipet gently.



Photograph of an GelRed® stained 2% agarose gel on which purified scaffold DNA samples were electrophoresed.

Exemplary references for usage:

Rothermund, PWK: "Folding DNA to create nanoscale shapes and patterns" -- Nature. 2006 Mar 16; 440(7082):297-302

Douglas, SM; Dietz, H; Liedl, T; Högberg, B; Graf, F; Shih, WM: "Self-assembly of DNA into nanoscale three-dimensional shapes" -- Nature. 2009 May 21; 459(7245):414-418

Detailed usage recipes:

Castro CE, et al: "A primer to scaffolded DNA origami" — Nature Methods. 2011 Mar; 8(3):221-9

Sequence:

CTTTTCGGGGAAATGTGCGCGGAACCTTGATCGGGCAGTAAAGAGTTCCAACTTTACCATAATGAAATAAGATCACTACCGGGCGTATTTTTGAGTTATCGAGATTTTCAGGAGCTAAGGAAGC
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