

DNASCRIPT

SYNTAX 96 HI-FIDELITY KIT

FOR USE WITH THE SYNTAX[®]
SYSTEM, MODEL STX-200

Cat. No. 102294 SYNTAX DNA
Synthesis Kit

Cat. No. 101868 SYNTAX 96
Hi-Fidelity Run Kit

The SYNTAX 96 Hi-Fidelity Run Kit includes the reagent and consumables required for the parallel enzymatic synthesis of 96 ready-to-use DNA oligos of up to 120 nucleotides (nt) in length and are intended for use in applications requiring high sequence accuracy, such as gene assembly, protein mutagenesis, or CRISPR gene editing. Rapid setup and printing of oligos enable same or next-day use in downstream workflows. The synthesis and run kits are both required for oligo synthesis using the SYNTAX System.

HIGHLIGHTS

- Flexible runs: Synthesize up to 96 unlabeled DNA oligos ≤ 120 nt in one run.
- Fast setup and synthesis: Set up a run in approximately 15-30 minutes and oligos are ready in 5-24 hours depending on length.
- Application-ready output: Oligos are desalted and normalized in molecular biology grade water and suitable for downstream research and development applications such as gene assembly, protein mutagenesis, or CRISPR-based gene editing.



SPECIFICATIONS

Turnaround time	<ul style="list-style-type: none">• Approximately 7.5 hours for 96 x 30-mer oligos• Approximately 24 hours for 96 x 120-mer oligos
Oligo length	<ul style="list-style-type: none">• 15-120 nucleotides
Yield and concentration	<ul style="list-style-type: none">• ≥ 200 pmol and ≥ 5 μM ($\geq 95\%$ of wells)*
Bases	<ul style="list-style-type: none">• Unmodified A, T, G, and C
Degenerate bases	<ul style="list-style-type: none">• Yes, all IUPAC codes (R, Y, M, K, S, W, H, B, V, D, N)
Error rate (per base)	<ul style="list-style-type: none">• Approximately 0.4%

* For oligos determined to be of standard synthesis difficulty by the Console Software.

KIT COMPONENTS

SYNTAX DNA Synthesis Kit - Cat. No. 102294	
Box 1 of 3: Synthesis Reagents	<ul style="list-style-type: none"> Includes synthesis reagents (S1, S2) Store at 4°C (shipped at room temperature)
Box 2 of 3: Synthesis Reagents	<ul style="list-style-type: none"> Includes synthesis reagents (S3, S4) Store at room temperature (shipped at room temperature)
Box 3 of 3: Synthesis Nucleotides & Enzyme	<ul style="list-style-type: none"> Includes synthesis nucleotides (dA, dT, dC, dG) and synthesis enzymes (S1E, S4E) Store at -20°C (shipped on dry ice)

SYNTAX 96 Hi-Fidelity Run Kit (and Custom iDNA version) - Cat. No. 101868	
Box 1 of 3: Post-Processing Reagents	<ul style="list-style-type: none"> Includes the post-processing reagents (P1, P2, P4, P5) Store at room temperature (shipped at room temperature)
Box 2 of 3: Post-Processing Enzymes	<ul style="list-style-type: none"> Includes the post-processing enzymes (P1E, P2E) Store at -20°C (shipped on dry ice)
Box 3 of 3: Consumables	<ul style="list-style-type: none"> Includes one Plate Set (Synthesis plate, Desalting plate, Oligo plate) and one adhesive plate sealing film Store at 4°C (shipped at room temperature)

RELATED ITEMS

ITEM	CATALOG NUMBER
SYNTAX System, Model STX-200	101773

FOR MORE INFORMATION

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