

DNASCRIP™

SYNTAX 96 STANDARD KITS

FOR USE WITH THE SYNTAX™ SYSTEM, MODEL STX-200

Cat. No. 101867
SYNTAX DNA Synthesis Kit

Cat. No. 101869
SYNTAX 96 Standard Run Kit

Cat. No. 101871
SYNTAX 96 Standard Run Kit,
Custom iDNA, pack of 8

The SYNTAX 96 Standard Kits include the reagents and consumables required for the parallel enzymatic synthesis of 96 ready-to-use DNA oligos of up to 80nt in length and are intended for use in applications such as PCR, qPCR, Sanger sequencing, protein engineering, or target enrichment. 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 or labeled DNA oligos ≤80nt in one run or up to 384 oligos ≤30nt in four* runs using the SYNTAX DNA Synthesis Kit. Each run requires one SYNTAX 96 Standard Run Kit.
- Label options: Menu of 5 fluorophores, 3 quenchers, and biotin.
- Degenerate Bases: Ability to include degenerate bases in the sequence to synthesize degenerate oligos.
- Fast setup and synthesis: Set up a run in approximately 15-30 minutes and oligos are ready in 6-17 hours depending on length.
- Application-ready output: Oligos are desalted and normalized in molecular biology-grade water and ready for immediate use in downstream applications.

* Runs must be performed within 7 days.



SYNTAX 96 STANDARD KIT SPECIFICATIONS

Turnaround time	<ul style="list-style-type: none">• Approximately 6 hours for 96 x 20mer oligos• Approximately 17 hours for 96 x 80mer oligos
Oligo length	<ul style="list-style-type: none">• 15-80nt
Bases Labels	<ul style="list-style-type: none">• Unmodified A, T, G, and C• Fluorophores – Green, Yellow, Orange, Red, Deep Red• Quenchers – Quencher 1, Quencher 2, Quencher 3• Biotin
Degenerate Bases	<ul style="list-style-type: none">• Yes, all IUPAC codes (R, Y, M, K, S, W, H, B, V, D, N)
Yield and concentration	<ul style="list-style-type: none">• ≥550 pmol and ≥7 μM (>95% of wells)**
Yield and concentration (labeled oligos)	<ul style="list-style-type: none">• ≥280 pmol and ≥4 μM (>95% of wells)**
Error rate (per base)	<ul style="list-style-type: none">• Approximately 0.6%

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

SYNTAX LABEL SPECIFICATIONS***

Fluorophore	Peak Excitation	Peak Emission	Quencher	Channel
Green (488)	495 nm	519 nm	Quencher 1	Use with FAM channel
Yellow (532)	532 nm	552 nm	Quencher 1	Use with HEX channel
Orange (550)	554 nm	576 nm	Quencher 2	Use with TAMRA channel
Red (565)	564 nm	590 nm	Quencher 2	Use with ROX channel
Deep Red (647)	646 nm	664 nm	Quencher 3	Use with CY5 channel

*** The SYNTAX Labels contain fluorophores from ATTO-TEC GmbH: Yellow (532) contains ATTO 532, Orange (550) contains ATTO 550, Red (565) contains ATTO 565, Deep Red (647) contains ATTO 647N.

KIT COMPONENTS

SYNTAX DNA Synthesis Kit	
Synthesis Reagents Box 1 of 3	<ul style="list-style-type: none"> Includes the S1 and S2 synthesis reagents for the SYNTAX DNA Synthesis Kit Store at 4°C (shipped at room temperature)
Synthesis Reagents Box 2 of 3	<ul style="list-style-type: none"> Includes the S3 and S4 synthesis reagents for the SYNTAX DNA Synthesis Kit Store at room temperature (shipped at room temperature)
Synthesis Nucleotides & Enzyme Box 3 of 3	<ul style="list-style-type: none"> Includes the nucleotides and enzyme reagents for the SYNTAX DNA Synthesis Kit Store at -20°C (shipped on dry ice)

SYNTAX 96 Standard Run Kit (and Custom iDNA version)	
Post-Processing Reagents Box 1 of 3	<ul style="list-style-type: none"> Includes the post-processing reagents P1, P2, P4 and P5 for the SYNTAX 96 Standard Run Kit Store at room temperature (shipped at room temperature)
Post-Processing Enzymes Box 2 of 3	<ul style="list-style-type: none"> Includes the post-processing enzymes for the SYNTAX 96 Standard Run Kit Store at -20°C (shipped on dry ice)
Consumables Box 3 of 3	<ul style="list-style-type: none"> Includes one iDNA Plate Set or Custom iDNA Plate Set for the SYNTAX 96 Standard Run Kit Store at 4°C (shipped at room temperature)

RELATED ITEMS

Item	Catalog Number
SYNTAX DNA Synthesis Kit	101867
SYNTAX 192 Label Kit	101991
SYNTAX 96 Label, Biotin	100785
SYNTAX 16/48/96 Label, Green	102196/102188/102180
SYNTAX 16/48/96 Label, Yellow	102197/102189/102181
SYNTAX 16/48/96 Label, Orange	102198/102190/102182
SYNTAX 16/48/96 Label, Red	102199/102191/102183
SYNTAX 16/48/96 Label, Deep Red	102200/102192/102184
SYNTAX 16/48/96 Label, Quencher 1	102193/102185/102177
SYNTAX 16/48/96 Label, Quencher 2	102194/102186/102178
SYNTAX 16/48/96 Label, Quencher 3	102195/102187/102179

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CUS-27 PIS_Standard Reagent Kits

August 2023