

DNASCRIP™

SYNTAX 96 STANDARD RUN KIT

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

Cat. No. 101869
SYNTAX 96 Standard Run Kit

The SYNTAX 96 Standard Run Kit includes the reagents and consumables required for the parallel enzymatic synthesis of 96 ready-to-use DNA oligos of up to 80 nt 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.



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STANDARD



SYNTAX 96 STANDARD RUN KIT SPECIFICATIONS

Oligo length	<ul style="list-style-type: none">• 15 - 80 nt
Bases	<ul style="list-style-type: none">• A, T, G and C
Labels	<ul style="list-style-type: none">• See related items
Degenerate bases	<ul style="list-style-type: none">• R, Y, M K, S W, H, B, V D and N
Yield	<ul style="list-style-type: none">• Unlabeled bases: ≥ 500 pmol*• Labeled bases: ≥ 280 pmol*
Concentration	<ul style="list-style-type: none">• Unlabeled bases: ≥ 7 μM*• Labeled bases: ≥ 4 μM*
Average error rate per base	<ul style="list-style-type: none">• 0.5%**
Run time	<ul style="list-style-type: none">• ~ 6 hrs for 96x 20 nt oligos• 17 hrs for 96x 80 nt oligos

* >95% of oligos

** The average error rate was empirically determined for a set of with a sequence difficulty categorized as "standard" by Console software. Note that complex motifs may impact average error rate.

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 96 Standard Run Kit - Cat. No. 101869	
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), one Polypropylene film (for optical application) and two microplate aluminum sealing tape• Store at 4°C (shipped at room temperature)

RELATED ITEMS

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)

ITEM	CATALOG NUMBER
SYNTAX System, Model STX-200	101773
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

FOR MORE INFORMATION

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DNAScript

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