

SYNTAX System

Cat. No. 100296 SYNTAX System – Model STX-100

Cat. No. 100315 On-Premises Console Software License

The SYNTAX System is a fully integrated, automated system that manages the template-free enzymatic synthesis of up to 96 oligos in parallel. This benchtop system synthesizes, desalts, quantifies, and normalizes oligos that are then ready for input into downstream molecular biology and genomics workflows. Intuitive software allows the scheduling and management of DNA synthesis runs and the viewing of synthesis results.

Highlights

- Sequence in, ready-to-use oligos out
- Enzymatic DNA Synthesis (EDS) technology for template-free synthesis
- Onboard desalting, quantification, and normalization of oligos
- No harsh organic solvents
- Intuitive software for a seamlessly integrated workflow

System Details

Instrument capability	<ul style="list-style-type: none"> • Fully automated synthesis, desalting, quantification, and normalization • Synthesis capacity: Up to 96 oligos in parallel • Run setup time: 15-30 minutes
Console Software	<ul style="list-style-type: none"> • Web-based software for managing users, projects, and synthesis runs • Design and manage custom synthesis plates, schedule runs, view and manage results • On-premises option available
Oligo details	<ul style="list-style-type: none"> • Synthesis duration: Dependent on oligo length. 6 hours for 20-mers, 17 hours for 80-mers • For other details, see product information sheet for specific reagent kit

Specifications

Measurements	<ul style="list-style-type: none"> • Instrument (benchtop): Weight: 159 kg 350 lb Dimensions (W x H x D): 122 x 66 x 74 cm 48 x 26 x 29 in • Vacuum cabinet (freestanding): Weight: 16 kg 35 lb Dimensions (W x H x D): 46 x 66 x 30 cm 18 x 26 x 12 in
Instrument internal computer	<ul style="list-style-type: none"> • Memory: 16 GB • Storage: 250 GB • CPU: Intel Core i7-6600U at 2.60 GHz • Operating system: Linux, Ubuntu 18.04.5 LTS
Communication ports	<ul style="list-style-type: none"> • USB 2.0 (2 back of instrument, 1 front panel) • Ethernet • HDMI out

Specifications (continued)

Electrical requirements	<ul style="list-style-type: none"> One 100-240 VAC, ≥ 15 A, 50/60 Hz single-phase power outlet Power output at typical power draw: <1000 W
Operating environment	<ul style="list-style-type: none"> Operational clearances: <ul style="list-style-type: none"> Top: 10 cm 4 in Front: 100 cm 40 in Left: 10 cm 4 in Right: 30 cm 4 in Back: 5 cm 2 in Additional clearance required for installation and service; consult SYNTAX System Site Preparation Guide Ambient temperature: 15-30°C 59-86°F Relative humidity: 20-80%, non-condensing

Related Items

Item	Catalog Number
SYNTAX 80-Cycle Synthesis Kit, 96 oligos, pack of 4	100853
SYNTAX 80-Cycle Processing Kit, 96 Oligos, pack of 4	100855
SYNTAX 80-Cycle Custom iDNA Processing Kit, 96 Oligos, pack of 8	100856
SYNTAX 60-Cycle Kit, 96 Oligos, pack of 4	100294
SYNTAX 60-Cycle Custom iDNA Kit, 96 Oligos, pack of 4	100274

For More Information

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