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You are here: DNA RNA Oligo Synthesizer - Dr. Oligo

Tuesday, 01 Jan 2019



High Quality
DNA / RNA / Oligo Synthesis

Designed to solve the unique issues related to synthesizing variable length oligos in high throughput.

Automated
Synthesis & Downstream Processing

- ☒ Synthesize
- ☒ Cleave
- ☒ Deprotect*
- ☒ Desalt
- ☒ Elute

1 to 768 Oligos Synthesized in One Run

Media Flexibility
All Synthesis Media

Specifically designed to allow use of all available synthesis media systems.

Low Volume
Amidite Delivery System

Minimizes waste of expensive amidites.

2x Reagent Dispensing
Reduces Overall Synthesis by 35%

Configuration	Reduction
384 - Standard	35%
384 - 2x Reagents	35%
768 - Standard	35%
768 - 2x Reagents	35%

Scalability
Auto Reagent Delivery

The software automatically adjusts reagent delivery according to the scale of the synthesis.


Ultimate Efficiency
Low Reagent & Gas Consumption

- Three Pressure Levels ↔ Fine Tune Reagent Flow
- Two Bottles Per Reagent ↔ Changing Bottles Without Repriming Lines
- Compact Gas Chamber ↔ Up to an 80% Reduction in Gas Consumption

Upgradeable
Hardware & Software

Open frame design allows for any existing or future upgrades.

MADE IN U. S. A.



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Biolytic's Dr. Oligo - DNA synthesizer delivers the world's fastest and most efficient* high quality oligonucleotide / dna synthesis in high throughput, medium throughput and custom configurations as well as establishing a cost effective solution flexible enough for cleavage, de-protection**, de-salting and elution.

Designed and built from the ground up to address the most demanding needs of the end user. The Dr. Oligo - DNA synthesizer boasts a total of 23 amidite delivery systems with up to 19 capable of low volume while remaining easy to operate and maintain. The unique open frame design permits for a wide range of customization options from additional bottles per reagent to double reagent dispensing. All existing and future upgrades can be equipped without having to purchase a brand new instrument and most upgrades can



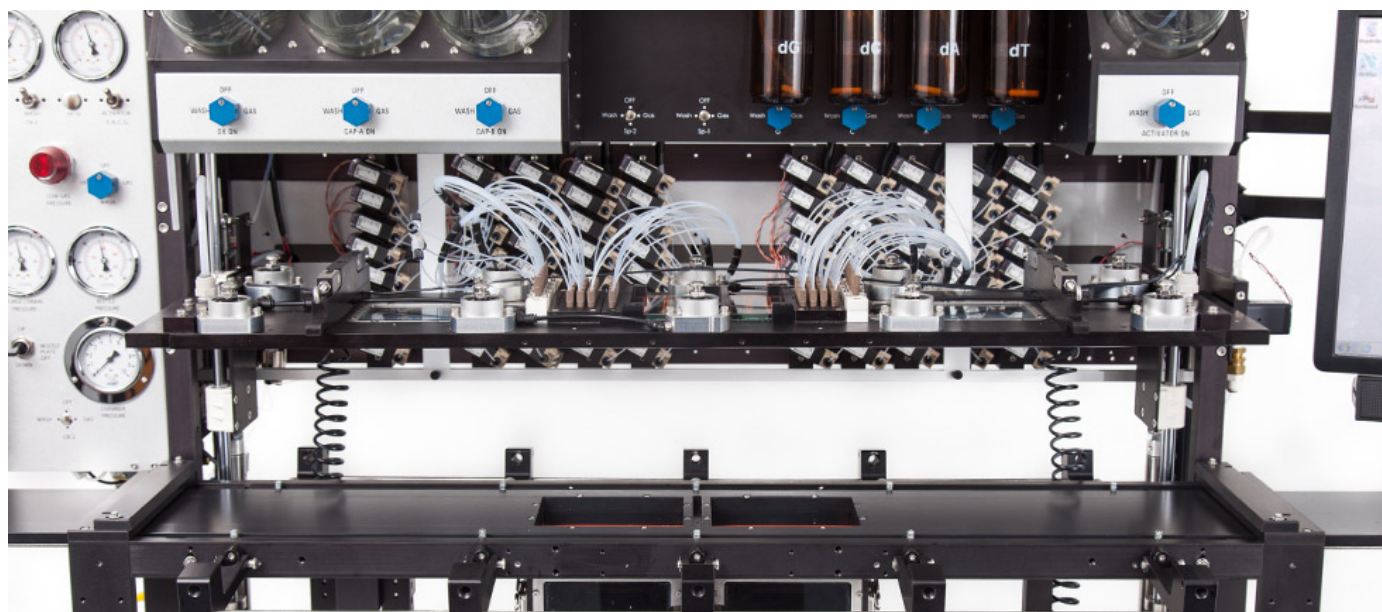
Control Panel
Dr. Oligo 192

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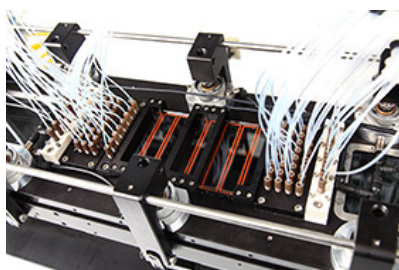
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cleaning between runs a semi-automated nozzle wash and purge system automatically prepares the instrument for the next use. This system is also available as a fully automated option which eliminates any user intervention.



" Used by all of the world's leading gene synthesis companies for synthesis of their most demanding high purity long oligos. "

Ultra efficient in reagent and gas consumption, the Dr. Oligo keeps operating costs down without sacrificing on the synthesis quality. A smaller gas chamber maintains up to an 80%***** reduction in gas spent while also taking considerably less time to pressurize. An additional bottle per reagent can be added to allow one bottle to run completely empty before being changed without having to re-prime the lines. Reagent flow rate through the synthesis media (columns) can be fine tuned with up to three different pressure settings minimizing reagent consumption to achieve optimal synthesis. The optional low volume delivery system minimizes waste of expensive amidites by placing the valves and bottles on the nozzle plate thereby reducing the tubing for priming and delivery.



Nozzle Plate

Dr. Oligo 192

With a user friendly interface, the Dr. Oligo software provides a robust and trouble free workflow that is entirely customizable. The built in powerful protocol editor allows total control over your particular chemistry. Create and save macros for complex procedures or modify existing built in macros to suit your own needs. Synthesis can range from 1 oligo to 768 oligos in a single run while scaling from 1 nMole to 2 uMole. The software will automatically adjust reagent delivery according to the scale of the synthesis. Detailed synthesis information can be quickly viewed with the ability to start and stop synthesis at anytime. Utilizing the standard IUB codes, mixed site synthesis can also be performed automatically in any ratio combination. Compatible with all available synthesis media including but not limited to fritted plates with loose CPG, 3900 style columns, and CPG Frits.

Oligonucleotides produced with the Dr. Oligo line of dna synthesizers can be used for Oligonucleotide and Gene synthesis, PCR / RT-PCR , siRNA / RNAi , miRNA, CRISPR Cas9, DNA / RNA sequencing , Immunity and Biochemistry , High-Throughput screening , Natural Product Biosynthesis , Gene Construction , Reverse Transcription PCP , Hybridization , SNPS , other diagnostic or therapeutic research.

*According to Biolytic research as of January 2014 **A de-protection chemistry at room temperature is required and reagents must be compatible with synthesis media. ***7 minutes per cycle at 20 mers / 50 nmol scale ****12 minutes per cycle at 20 mers / 15 nmol scale with double reagent dispensing option *****Over leading competitors

SPECIFICATIONS

VIDEO

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SYNTHESIS CAPABILITIES	DNA, RNA, 2' OMethyl, LNA
AMIDITE DELIVERY SYSTEMS	Up to 23
SPECIAL AMIDITE DELIVERY SYSTEMS	Up to 19
LOW VOLUME AMIDITE DELIVERY SYSTEMS	Up to 19
DISPENSE NOZZLES PER REAGENT	8 or 16
GAS INPUTS	Bottle Blanketing Purge/Drain Pneumatics
INTEGRATION WITH LAB'S MANAGEMENT SYSTEM	Included
POWER	100-240 VAC, 50-60 Hz, 1,000 VA
SIZE IN INCHES (L X W X H)	83 x 23 x 72.25
MADE IN THE U.S.A.	@ Fremont, CA

- Additional Wash Bottles Available
- Additional Deblock Bottles Available
- View Synthesis Information at Any Time During Synthesis
- Start Synthesis from Any Point
- Powerful Protocol Editor
- Manual Mode Auto Clean of Nozzles
- Flexible Loading of Oligos onto Plate(s)
- Vary Protocol Based on Cycle
- Map Amidites
- Intelligent Auto Reprime of Amidite Nozzles
- Wash and Purge System
- Easy Trityl Collection

DOWNLOADS

PRODUCT DATA SHEET
PRODUCT FEATURES
PRODUCT DIMENSIONS

INTEGRATED CART SYSTEM

EASY ACCESS -> SLIDE OUT BOTTLE TRAY	Storage for Up to 11 (4-Liter) Bottles
OPTIONAL SIDE CART ATTACHMENT	Storage for Waste Container and 2 Additional (4 Liter) Bottles
POWDER COATED FRAME AND HDPE LINER	Prevents Chemical



IMAGES



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