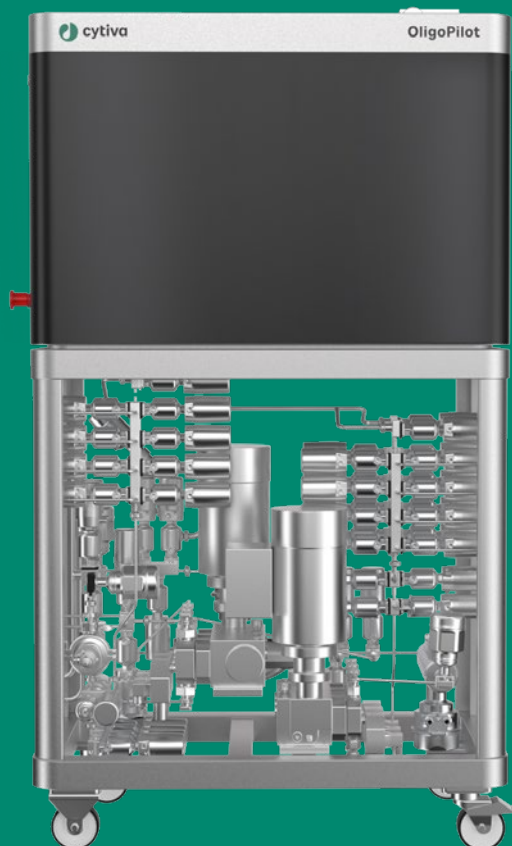


OligoPilot™ synthesizer

The pilot-scale system that takes
your drug through clinical development



Looking for a user-friendly and compact oligonucleotide synthesizer with a large scale range? Meet the OligoPilot™ synthesizer. Building on our decades of experience designing solutions with leading oligonucleotide pharma, the OligoPilot synthesizer is designed for production of therapeutic oligonucleotides in quantities required for early to mid-phase clinical trials. This system relies on the same solid-phase flowthrough synthesis technology, the common standard for the oligonucleotide industry.

The OligoPilot synthesizer is designed with all features requested and experience gained from decades of customer collaborations. The extensive scale range does not compromise on the system's footprint. The system can fit in a standing fume hood, minimizing facility investment requirements. Made with high-quality, industrial-grade system components, the OligoPilot synthesizer is built and verified to assure up-time, helping you reach your next milestone.

System features

- Increased scale range to support material quantities required in clinical development, with a 1200 × 688 mm footprint
- Flow-meters, heat exchanger, and increased number of inlets in standard design
- Optimized hold-up volume
- Updated valve design and purge technology
- UNICORN™ software, updated and 21 CFR Part 11 compliant
- Common UNICORN software for seamless method transfer and consistent vocabulary and references across departments, sites, and companies

Technical specifications

OligoPilot synthesizer	
Dimensions (W × H × D)	~ 1200 × 1907 × 688 mm (exact dimensions pending final design)
Nominal synthesis scale	10–150 mmol
Monomer inlets	17
Reagent and solvent inlets	10
Waste outlets	4
Piping material	Stainless steel
Recirculation	Yes
Sensors	<ul style="list-style-type: none"> • UV (254–700 nm) • Conductivity • Pressure • Flow meter • Temperature
Heat exchanger	Yes, pipe in tube
Number of pumps	2
Maximum flow rate	3850 mL/min
Maximum operating pressure	10 bar g
Compressed air supply pressure	6–10 bar g
Instrument air consumption*	< 50 NL/min
Instrument air consumption, purge*	500 NL/min
Power supply	110–230 VAC, 50–60 Hz
Certificates	ATEX Zone 2 (IECEx Zone 2/NFPA 79 Class1 Div2)**
Degree of protection	IP 55
Software	UNICORN 7.8 or later

* Non-condensing, particle and oil-free

** Local regulations available upon request

Oligo column scale range (mmol)

AxiTide™ 50	2–6
FineLINE™ 70	4–12
FineLINE 100	9–25
AxiTide 140	18–50
FineLINE 200	37–100
FineLINE 350	110–300 mmol

Based on 350 µmol/gram loading on Primer Support™ 5G solid support and 3–8 cm bed height

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