



KNAUER OligoScaler

High-Quality Oligonucleotide Synthesis
– Fast, Reliable, and Cost-Effective

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- Flow rates up to **250 mL/min per pump**
– supporting synthesis scales from **100 μmol to 30 mmol**
 - **Intuitive programming with timetable-based methods**
for optimal synthesis control
 - **Simultaneous UV detection** at up to **4 wavelengths (190–900 nm)**
 - **Integrated conductivity measurement** within the recycling loop
 - Includes **three synthesis columns** for scales from **100 μmol to 6 mmol** – larger sizes on request
 - **Standard configuration:** 12 amidite positions
– ideal for **complex oligos**
 - **Fully customizable setup** – additional amidite positions or detectors
available on request

Oligonucleotide synthesis in pharma process development is both challenging and cost-intensive. That's why we designed a synthesis platform that combines high precision, reliability, and scalability - allowing you to develop manufacturing methods in preparation for GMP.

With the KNAUER OligoScaler, you can seamlessly move from lab-scale synthesis ($\approx 100 \mu\text{mol}$) to production-scale synthesis up to 30 mmol. Thanks to flow rates of up to 250 mL/min per pump, you benefit from shorter contact times with sensitive reagents, enabling you to control and minimize impurity profiles effectively.

Our intuitive software provides all the tools you need to fine-tune your synthesis.

Adjust coupling steps, modify oxidizer contact times, or recycle difficult modifications - all with just a few clicks. Design your synthesis exactly the way you need it.

The standard configuration offers 12 phosphoramidite positions with integrated wash ports to prevent cross-contamination, plus 10 reagent positions that provide flexibility for any number of additional chemistry or phosphoramidite inlets.

Real-time monitoring of your detritylation curve with our detector lets you track synthesis performance at one of up to four wavelengths (190-900 nm), while conductivity measurement within the recycle loop ensures precise process control.

Both the system and the software allow a fully modular concept. Need more detectors, chemistry or amidite positions?

➔ **Contact us - we'll tailor your OligoScaler to your exact requirements.**

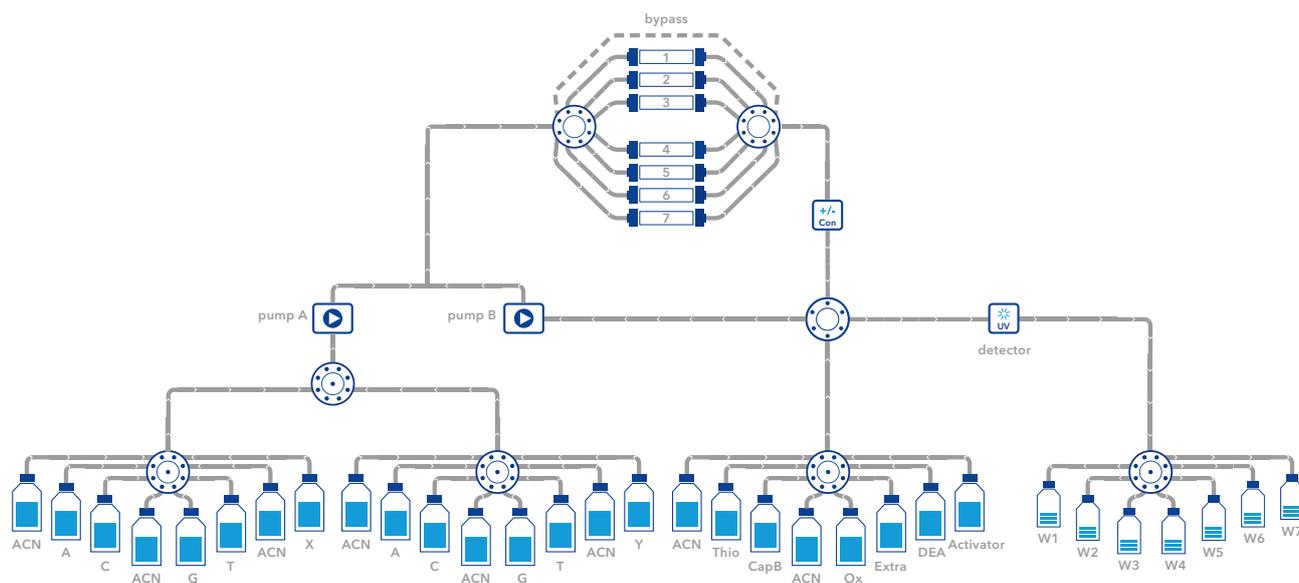


Figure 1: KNAUER OligoScaler flow scheme



think **LC.** think **KNAUER.**

Find out more at

<https://www.knauer.net/oligo>

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KNAUER Wissenschaftliche Geräte GmbH • Hegauer Weg 38 • 14163 Berlin • +49 30 809727-0 • info@knauer.net • www.knauer.net