**Comparison guide: the advanced system vs the historic systems** 

# **Meet the latest** member of the oligo synthesis family, the ÄKTA oligosynt<sup>TM</sup> synthesizer







# The latest ÄKTA oligosynt™ vs legacy ÄKTA™ oligopilot plus oligonucleotide synthesizer

## Increased flexibility in scale and number of monomers

	Latest system	Legacy system
Similar footprint (W × H × D)	<ul> <li>535 × 630 × 470 mm Excludes space required for amidites and reagents</li> <li>700 × 630 × 540 mm Fully equipped</li> </ul>	<ul> <li>450 × 610 × 480 mm Excludes space required for amidites and reagents</li> </ul>
Similar weight	64 kg (fully equipped)	63 kg
System access	Open front keeps modules and full flowpath within reach	Modules and flowpath behind closed door, limited monomer access
Flexible synthesis scale	10 µmol to 12 mmol One system to install and maintain for a flexible scale range	<ul> <li>ÄKTA™ oligopilot plus 10: 10–50 µmol</li> <li>ÄKTA oligopilot plus 100: 50 µmol to 9 mmol</li> </ul>
Increased flow rate	300 mL/min (two pumps)	<ul> <li>ÄKTA oligopilot plus 10: 20 mL/min (two pumps)</li> <li>ÄKTA oligopilot plus 100: 200 mL/min (two pumps)</li> </ul>
Increased amidite inlets	16	12
Streamlined column positions	5	7
Increased reagent and solvent inlets	14	11
Increased waste outlets	11	8
Increased maximum operating pressure	25 barg	20 barg

## Interactive user interface and method editing

	Latest system	Legacy system
Vastly improved control software	UNICORN™ 7.8 or higher	UNICORN 5
Superior process picture	<ul> <li>Extended interactivity</li> <li>Highlights the most important data and allows access to necessary functionality</li> <li>Interactive process picture with easy monitoring of your run</li> </ul>	Limited interaction
Assured method creation	<ul> <li>Sequence editor</li> <li>Copy-and-paste sequence function for assured sequence entry</li> </ul>	<ul><li>Sequence editor</li><li>No copy-and-paste sequence function</li></ul>
User-friendly method editing	<ul> <li>Text editing and phase editor</li> <li>User-friendly interface, creating a method by drag and drop of modules for a successful first synthesis.</li> <li>Easy overview for changing variables for each cycle or all at once.</li> <li>Create your own user-defined phases and reuse parts of methods</li> </ul>	Method creation and editing by experienced programming of a te method.

#### Table showing instruments with UNICORN software and Windows compatibility

System	UNICORN	Windows
ÄKTA oligopilot 10/100	UNICORN 5.31	Windows XP, Windows and Windows 10
OligoPilot™ 400	UNICORN 5.31	Windows XP, Windows and Windows 10
ÄKTA oligosynt	UNICORN 7.8 and later	Windows 7 and later
OligoPilot™	UNICORN 7.8 and later	Windows 7 and later
OligoProcess™	UNICORN 7.8 and later	Windows 7 and later





2

# Why UNICORN<sup>™</sup> 7?

Create a method and successfully do your first synthesis with ease and speed using verified parameters adopted to your individual sequence

Predefined methods to get you started within minutes with minimum interactions to get validated instructions in phases for a method ready to run.

New Method	× 1.	Select the column to be used
System: ÄKTA oligosynt	2.	Select support type (base load or UnyLinker)
Create a new method by using the: Predefined Method:		Copy and paste your target sequence
	Cytive UNICORN Method Editor - UNTITLED*	
A Tide 50 oligo column A FineLINE 35 oligo column p FineLINE 70 oligo column target sequence in the Sequence phase and preparing for recovery of the	Method Plases Method Settings Initial Synthesis Steps	Descriptions         Image: Completion of the comple
synthesized product in the Final Synthesis Steps phase.	Sequence Final Symbols Strays	Segures 002 AMA CC (TT T ) Edit Segures 1 Edit Segures 1 Edit Segures 2 Edit Segu
Ø	c	
	Define Save Phase. Devotice & torisides	

#### Easy overview to set conditions and parameters for all bases or individually.

Amidite equivalents         1.80         Eq (1.00 - 10.00)         Set           Amidite concentration         0.150         M (0.010 - 0.500)         Set           Amidite concentration         0.150         M (0.010 - 0.500)         Set           Charge time         1.0         min (0.3 - 5.4)         Set           Secticulation time         3.00         min         Set           Recirculation time         3.00         min         Set           Wash volume         2.00         CV/min (0.00 - 23.87)         Set           Per Base Coupling Parameters         Set         Set           Base         Amidite equivalents         Concentration min         %         Recirculation flow           A         1.8         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           G	Amidite equivalents         1.80         Eq (1.00 - 10.00)         Set           Amidite concentration         0.150         M (0.010 - 0.500)         Set           Amidite concentration         0.150         M (0.010 - 0.500)         Set           Charge time         1.0         min (0.3 - 5.0)         Set           Matchator         60         % (P - 99)         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         concentration         Set           Wash volume         3.00         C/V         Set           Pase Coulting Parameters         Set         Set           Base         Amidite equivalents         Concentration min         % Activator         Recirculation flow min           A         1.8         0.150         1.0         60         3.00         2.00           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1	Amidite concentration         0.150 0.150         M [b.010 - 0.300]         Set           Charge time         1.0         min [0.3 - 5.0]         Set           %Activator         60         % [b - 59]         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         c/v         Set           Recirculation flow         2.00         C/vinin [0.00 - 23.07]         Set           Wash volume         3.00         c/v         Set           Per Base Coupling Parameters         Set         Minitian time         Recirculation flow           A 1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150									
Amidite concentration         0.150         M [0.010 - 0.300]         Set           Charge time         1.0         min [0.3 - 5.0]         Set           MActivator         60         % [0 - 59]         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         concentration         Set           Per Base Coupling Parameters         Set         Set           Base         Amidite equivalents         C/V         Set           An 1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0<	Amidite concentration         0.150         M [0.010 - 0.300]         Set           Charge time         1.0         min [0.3 - 5.0]         Set           MActivator         60         % [0 - 59]         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         concentration         Set           Per Base Coupling Parameters         Set         Set           Base         Amidite equivalents         C/V         Set           An 1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0<	Amidite concentration         0.150         M (0.010 - 0.500)         Set           Charge time         1.0         min (0.3 - 5.0)         Set           Skdtivator         60         % (9 - 99)         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         CV         Set           Per Base Coupling Parameters         Set         Set           Base         Amidite of the formation time         5.01         1.0         60         3.00         2.00           C         1.3         0.150         1.0         60         3.00         2.00           Per Base Coupling Parameters         Set         Set         Set         Set         Set           A midite on time         0.150         1.0         60         3.00         2.00           C         1.3         0.150         1.0         60         3.00         2.00           C         1.3         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00	Global Co	upling Parameter	rs						
Anight equivalents         Anight equivalents         Charge time of \$1(0.3 - 5.0)         Set           StActivator         60         \$1(0.9 - 99)         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         min         Set           Recirculation flow         2.00         CV/min [0.00 - 23.87]         Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Set         Non-         Set           Base         Amidite equivalents         Concentration min         %Activator         Recirculation flow           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00	Anight equivalents         Anight equivalents         Charge time of \$1(0.3 - 5.0)         Set           StActivator         60         \$1(0.9 - 99)         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         min         Set           Recirculation flow         2.00         CV/min [0.00 - 23.87]         Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Set         Non-         Set           Base         Amidite equivalents         Concentration min         %Activator         Recirculation flow           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00	Andrew Marken	Amidite ec	quivalents	1.80 Eq [1.00 - 10	00]	Set				
SkActivator         60         % [0 - 99]         Set           Recirculation time         3.00         min         Set           Recirculation time         2.00         CV/min [0.00 - 23.37]         Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Set         Set           Base         Amidite equivalents         Charge time concentration flow         Set           A         1.3         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00	SkActivator         60         % [0 - 99]         Set           Recirculation time         3.00         min         Set           Recirculation time         2.00         CV/min [0.00 - 23.37]         Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Set         Set           Base         Amidite equivalents         Charge time concentration flow         Set           A         1.3         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00	SkAchivator         60         % [0 - 99]         Set           Recirculation time         3.00         min         Set           Recirculation time         3.00         CV         Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Set         Set           Base         Amiolate         CV         Set           Per Base Coupling Parameters         Min         % Set         Min         Recirculation from CV/min           1.3         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Y         1	Amidite co	oncentration 0	.150 M (0.010 - 0.	500]	Set				
Annume         Image: Constraint of the second	Annume         Image: Constraint of the second	Base         Arrights         Set           2.00         CV min (0.09 - 23.87)         Set           Wash volume         2.00         CV         Set           PE Base Coupling Parameters         Arrights         Arrights         Set           Base         Arrights         Arrights         Set           CV         Set         Set           PE Base Coupling Parameters         Minimation         Set           Coupling Parameters         Minimation         Set           C         1.8         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.3         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           X         1.3         0.150         1.0         60         3.00         2.00           Y <td>Charge tin</td> <td>ne</td> <td>1.0 min (0.5 - 5.0</td> <td>1</td> <td>Set</td> <td></td> <td></td> <td></td> <td></td>	Charge tin	ne	1.0 min (0.5 - 5.0	1	Set				
Amidite concentration (C)/min (0.00 - 23.87)         Set Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Saccoultion         Recirculation (C)/min         Recirculation (C)/min         Recirculation (C)/min         Recirculation (C)/min         Recirculation (C)/min           A         1.3         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q	Amidite concentration (C)/min (0.00 - 23.87)         Set Set           Wash volume         3.00         CV         Set           Per Base Coupling Parameters         Saccoultion         Recirculation (C)/min         Recirculation (C)/min         Recirculation (C)/min         Recirculation (C)/min         Recirculation (C)/min           A         1.3         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q	Amidia         C/V min (0.00-23.87)         Set           Wash volume         2.00         CV         Set           PERsec Coupling Parameters         Set         Set         Set           Base         Amidia         Amidia         CV         Set           C         18         Orgo         Set         Set           C         10         5         Min         Recirculation flow min         Recirculation flow min           C         1.8         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         6	%Activator	r 🗌	60 % [0 - 99]		Set				
Aminite equivalent         Aminite Microstration         CArrysteine min         Set           Base         Aminite equivalent         Aminite Microstration         Chargetime min         SetActivator Soft         Recivation min         Recivation CV/min           A         1.3         0.150         1.0         60         3.00         2.00           G         1.3         0.150         1.0         60         3.00         2.00           G         1.3         0.150         1.0         60         3.00         2.00           G         1.3         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00	Aminite equivalent         Aminite Microstration         CArrysteine min         Set           Base         Aminite equivalent         Aminite Microstration         Chargetime min         SetActivator Soft         Recivation min         Recivation CV/min           A         1.3         0.150         1.0         60         3.00         2.00           G         1.3         0.150         1.0         60         3.00         2.00           G         1.3         0.150         1.0         60         3.00         2.00           G         1.3         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00	Amidia         Amidia         Cr         Set           Per Base Coupling Parameters         Set         Set         Recirculation         Recirculation           Ease         Amidia         Aniolog         No         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0 <td>Recirculati</td> <td>on time</td> <td>3.00 min</td> <td></td> <td>Set</td> <td></td> <td></td> <td></td> <td></td>	Recirculati	on time	3.00 min		Set				
Amidia Eq         Amidia M         Amidia Concentration M         Charge time min         SActivator %         Resirculation time min         Resirculation M         Resirculation min         Resircula	Amidia Eq         Amidia M         Amidia Concentration M         Charge time min         SActivator %         Resirculation time min         Resirculation M         Resirculation min         Resircula	Amidia Functional         Amidia M         Amidia M <td>Recirculati</td> <td>on flow</td> <td>2.00 CV/min [0.00</td> <td>- 23.87]</td> <td>Set</td> <td></td> <td></td> <td></td> <td></td>	Recirculati	on flow	2.00 CV/min [0.00	- 23.87]	Set				
Base         Amidite equivalents: Concentration min         Charge time %         %Activator time         Recirculation flow min         Recirculatiof flow min         R	Base         Amidite equivalents: Concentration min         Charge time %         %Activator time         Recirculation flow min         Recirculatiof flow min         R	Base         Amidite equivalents         Amidite concentration         Charge time min         %Activator         Recirculation time         Recirculation flow min           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60	Wash volu	me	3.00 CV		Set				5
Base         Amidite equivalents: Concentration min         Charge time %         %Activator time         Recirculation flow min         Recirculatiof flow min         R	Base         Amidite equivalents: Concentration min         Charge time %         %Activator time         Recirculation flow min         Recirculatiof flow min         R	Base         Amidite equivalents         Amidite concentration         Charge time min         %Activator         Recirculation time         Recirculation flow min           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60									
equivalents         concentration min         time %         flow min         flow CV/min           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.3         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.4         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           u         1.8 </td <td>equivalents         concentration min         time %         flow min         flow CV/min           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.3         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.4         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           u         1.8<!--</td--><td>equivalents         concentration         time         flow           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	equivalents         concentration min         time %         flow min         flow CV/min           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.3         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.4         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           u         1.8 </td <td>equivalents         concentration         time         flow           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	equivalents         concentration         time         flow           A         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150									
A         1.5         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.13         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x <td< th=""><th>A         1.5         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.13         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         <td< th=""><th>A         1.5         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           u</th><th>Base</th><th>equivalents</th><th>concentration</th><th>-</th><th></th><th></th><th>time</th><th>flow</th><th></th></td<></th></td<>	A         1.5         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.13         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x <td< th=""><th>A         1.5         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           u</th><th>Base</th><th>equivalents</th><th>concentration</th><th>-</th><th></th><th></th><th>time</th><th>flow</th><th></th></td<>	A         1.5         0.150         1.0         60         3.00         2.00           C         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           G         1.8         0.150         1.0         60         3.00         2.00           u	Base	equivalents	concentration	-			time	flow	
G         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.3         0.150         1.0         60         3.00         2.00           c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           x	G         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.3         0.150         1.0         60         3.00         2.00           c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           x	G         1.8         0.150         1.0         60         3.00         2.00           T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           c         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           y	A		0.150		6	)			
T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x	T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x	T         1.8         0.150         1.0         60         3.00         2.00           Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.3         0.150         1.0         60         3.00         2.00           c         1.3         0.150         1.0         60         3.00         2.00           c         1.3         0.150         1.0         60         3.00         2.00           g         1.3         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z	с	1.8	0.150	1.0	60	)	3.00	2.00	
Q         1.8         0.150         1.0         60         3.00         2.00           V         1.8         0.150         1.0         60         3.00         2.00           V         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           c         1.3         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	Q         1.8         0.150         1.0         60         3.00         2.00           V         1.8         0.150         1.0         60         3.00         2.00           V         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           c         1.3         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	Q         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z	G	1.8	0.150	1.0	60	)	3.00	2.00	1
X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	X         1.8         0.150         1.0         60         3.00         2.00           X         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	X         1.8         0.150         1.0         60         3.00         2.00           V         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00	т	1.8	0.150	1.0	60	)	3.00	2.00	
Y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           s         1.3         0.150         1.0         60         3.00         2.00           s         1.8         0.150         1.0         60         3.00         2.00           g         1.4         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	Y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           s         1.3         0.150         1.0         60         3.00         2.00           s         1.8         0.150         1.0         60         3.00         2.00           g         1.4         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	Y         1.8         0.150         1.0         60         3.00         2.00           Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00									
Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00	Z         1.8         0.150         1.0         60         3.00         2.00           a         1.8         0.150         1.0         60         3.00         2.00           c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00									
a 1.8 0.150 1.0 60 3.00 2.00 g 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 x 1.8 0.150 1.0 60 3.00 2.00 x 1.8 0.150 1.0 60 3.00 2.00	a 1.8 0.150 1.0 60 3.00 2.00 g 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 x 1.8 0.150 1.0 60 3.00 2.00 x 1.8 0.150 1.0 60 3.00 2.00	a 1.8 0.150 1.0 60 3.00 2.00 c 1.8 0.150 1.0 60 3.00 2.00 y 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 x 1.8 0.150 1.0 60 3.00 2.00									
c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	c         1.8         0.150         1.0         60         3.00         2.00           g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	c 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 u 1.8 0.150 1.0 60 3.00 2.00 q 1.8 0.150 1.0 60 3.00 2.00 x 1.8 0.150 1.0 60 3.00 2.00 y 1.8 0.150 1.0 60 3.00 2.00 z 1.8 0.150 1.0 60 3.00 2.00 z 1.8 0.150 1.0 60 3.00 2.00									
g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.4         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.4         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	g         1.8         0.150         1.0         60         3.00         2.00           u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00									
u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	u         1.8         0.150         1.0         60         3.00         2.00           q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00									
q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00	q         1.8         0.150         1.0         60         3.00         2.00           x         1.8         0.150         1.0         60         3.00         2.00           y         1.8         0.150         1.0         60         3.00         2.00           z         1.8         0.150         1.0         60         3.00         2.00									
x 1.8 0.150 1.0 60 3.00 2.00 y 1.8 0.150 1.0 60 3.00 2.00	x 1.8 0.150 1.0 60 3.00 2.00 y 1.8 0.150 1.0 60 3.00 2.00	x 1.8 0.150 1.0 60 3.00 2.00 y 1.8 0.150 1.0 60 3.00 2.00 z 1.8 0.150 1.0 60 3.00 2.00									
y 1.8 0.150 1.0 60 3.00 2.00	y 1.8 0.150 1.0 60 3.00 2.00	y 1.8 0.150 1.0 60 3.00 2.00 z 1.8 0.150 1.0 60 3.00 2.00									
		z 1.8 0.150 1.0 60 3.00 2.00									
Sn			у							30	
SA			у							34	
San			у							30	

#### Intuitive access to all essential information with interactive process picture.



#### **Evaluation using Zoom to reveal details even for longer** runs, compare curves by overlay from multiple results or side-by-side by tiling them.



- 4. Set synthesis conditions (one pop-up for all bases)
- 5. Optimize parameters individually



Design your own layout of system control panel with run data, synthesis data (coupling efficiency table), run log, chromatogram pane, and process picture.

▶ 渋 #	▶ ■ <b>         </b>						
AKTA oligosynt -							
Run Data				×	Chromatogram		
Connection Yes Scouting no. 0	System date: Accivolume Method Run 124.96 ml	e Biockvolume Accetime Accetime 223 ml (V) 529 min	Blocktime 0.21 min			Reduit	Cond Run Log
Synthesis data				×	Process Picture		
5' ACG TGG TTT < (Universal)	quence Defined in Method			3' 12 bases	Method Res         Three:         Current           Solvent A         Pumpi A         Solvent A           Detrit         Solvent A         Solvent A	cycle: 1 Current Most: Denitylation peak start delay Univers	T 0
Integration Table	Base	tention	Duration		Pursp 3 5.2 m/min	Bypass	no 3 - Normal 1
					Solverit B Detrit		
	Total Yield: %	Ave	rage Efficiency: %		Total Flow 10.5 mit/min Pressure System Pressure Defis Column Pressure	Run data         Limit           0.0 bar         25.0 bar           0.0 bar         20.0 bar           0.0 bar         20.0 bar	
Run Log (Filter on							
4.95 min Update o 4.95 min Update o 4.95 min Waste val 4.95 min Waste val 4.95 min Solvent A 4.95 min Solvent A	rt (Issued) (Processing) (Completed) cycle counter (Issued) (Processing) cycle counter (Completed) alve W1 (Issued) (Processing) alve W1 (Completed) A inlet Detrit (Issued) (Processing) A inlet Detrit (Issued) (Processing) B inlet Detrit (Issued) (Processing)						

#### **Create your own report template to view the results and** information you need in the same format every time.

9 See   9 See </th







## Increased and robust process control

	Latest system	Legacy system
Sensors	<ul> <li>Conductivity</li> <li>UV</li> <li>Pressure</li> <li>Air</li> <li>Temperature</li> <li>Pre-column temperature and conductivity</li> </ul>	<ul> <li>Conductivity</li> <li>UV</li> <li>Pressure</li> </ul>
Method overview	(optional) Improved transparency with fewer macros	Complicated, hard-coded macros
Data collection	Up to 180 000 data points for improved robustness further sampling rate during run	Up to 16 000 data points
Data handling	<ul><li>Database storage</li><li>Easier cross-analysis; easier data handling</li></ul>	File-based data storage
User access	Easy user admin by active directory authorization and rules of password changed for increased and adjusted user security	Only UNICORN authentication and password policy cannot be changed

## Intuitive user interface

	Latest system	Legacy system
System module access	Open front allows easy access to system modules and supports full ventilation	Enclosed system modules
Flow path	<ul> <li>One wet side supports optimized flow path and hold-up volume</li> <li>Limits the dilution of amidites</li> <li>Reduces use of reagents and solvents, supporting future scale-up requirements</li> </ul>	Two wet sides and fewer inlets
Bottle holder	Bottle holders on system rails; space for up to 16 amidite bottles up to 900 mL	Bottle sliders: space for up to 12 amidite bottles up to 100 mL
System components	Same verified and standardized components used in our ÄKTA chromatography systems Supports faster service and easy access to components	Ageing system components
Optional modules	<ul> <li>Options include:</li> <li>Loop valve to connect multiple heat exchangers</li> <li>Pre-column conductivity monitor with built-in temperature sensor</li> <li>Connection of external flow meter and external sensors through the I/O-box</li> </ul>	None
Recirculation	Yes	Yes

4

# Take home messages

## ÄKTA oligosynt synthesizer is designed to fulfill the same high-quality requirement of oligonucleotides as the legacy systems

- It's a small-scale system designed for maximum flexibility and support for operators
- It's built for flexible oligonucleotide synthesis for scales from research to process development laboratories
- UNICORN 7 on the ÄKTA oligosynt synthesizer enables an easy to-create and optimize, robust, and scalable synthesis method for oligonucleotide synthesis
- It provides a global application, full service support, and spare part stock managed locally, not centrally
- The system has short lead times



# Chromatography TFF

# **Top tip!**

Take a step back and make decisions with your full oligo processing in mind early in development to understand consequences when scaling up. Let us share our lessons from over 40 years of oligo manufacturing experience across more than 25 countries, to future-proof your oligo workflow.



#### **Policy for end of service**

Interested in our policy for end of service support on the synthesis systems? Read more here





5



#### cytiva.com

Cytiva and the Drop logo are trademarks of Life Sciences IP Holdings Corp. or an affiliate doing business as Cytiva. ÄKTA, ÄKTA oligosynt, OligoPilot, OligoProcess, and UNICORN are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva. Any other trademarks are the property of their respective owners.

The Danaher trademark is a proprietary mark of Danaher Corporation.

Any use of software may be subject to one or more end user license agreements, a copy of, or notice of which, are available on request.

© 2025 Cytiva

For local office contact information, visit cytiva.com/contact CY26388-19Mar25-BR

