

TECHNICAL SPECIFICATIONS

Kilobaser one & Kilobaser one-XT

Product information and comparison

	Kilobaser one	Kilobaser one-XT
Description	DNA Synthesizer	DNA & RNA Synthesizer
Oligo Length	Up to 50nt (recommended)	Up to 50nt (recommended)
DNA	Yes	Yes
DNA Probe	No	Yes
Modified DNA	No	Yes
Modified RNA	No	Yes
Total Yield	> 300 pmol	> 300 pmol
Stepwise Yield	99.5%	99.5%
Column Type	Microcolumn (on chip)	Microcolumn (on chip)
Column Capacity	One	One
Required	Nitrogen or argon gas supply	Nitrogen or argon gas supply
Cycle Time	2.5 min/nt	2.5 min/nt
Hands-on Time	1.5 minutes to start; 1 minute for finish	1.5 minutes to start; 1 minute for finish
Oligo Purification	Not required	Kilobaser Manual (OliPure HIC Purification Kit)
Oligo Product Condition	Dried	Dried

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Synthesis	Fully automated	Fully automated
Post-Synthesis Deprotection	Fully automated	Fully automated
Synthesis Type	Solid-phase phosphoramidite	Solid-phase phosphoramidite
Synthesis Capacity	One oligo/run	One oligo/run
Touch Screen	Included	Included
Supplies	Kilobaser cartridge + chips only	Kilobaser cartridge + chips only
Offline Operable	Yes	Yes
Online Operable	Yes, not required	Yes, not required
System Update	Free; offline or online; guaranteed for 1 year	Free; offline or online; guaranteed for 2 years
Instrument Size	27x33x33cm	27x33x33cm
Weight	21kg	21kg
Smart Help	Yes	Yes
Installation Online	Yes	Yes
Installation On-Site	Additionally bookable	Additionally bookable

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Basic Support*	Yes	Yes
Extended Support*	No	Yes
Scientific Support*	No	Yes

***Basic Support:**

As soon as the Kilobaser arrives at your site, we assist you through connection and installation in the course of an online set-up call. We are happy to support you in your initial DNA synthesis to prepare the Kilobaser for your custom oligo syntheses.

***Extended Support:**

We provide a detailed introduction to all the possible modifications and explain how to create your desired modified oligonucleotides using the Kilobaser cartridge-and-chip system. This includes a step-by-step introduction to our OliPure purification kit and manual cleaning in case the cartridge type is changed.

***Scientific Support:**

We are happy to help you evaluate your syntheses and experiments with oligonucleotides synthesized with the Kilobase and troubleshoot together, discussing further steps. We also offer to analyze your synthesized oligonucleotides in our laboratory to assure their quality.