

# TECHNICAL SPECIFICATIONS

## Kilobaser one-XT

### Product information and comparison

	<b>Kilobaser one-XT</b>
<b>Description</b>	DNA & RNA Synthesizer
<b>Oligo Length</b>	Up to 50nt (recommended)
<b>DNA</b>	Yes
<b>DNA Probe</b>	Yes
<b>Modified DNA</b>	Yes
<b>Modified RNA</b>	Yes
<b>Total Yield</b>	> 300 pmol
<b>Stepwise Yield</b>	99.5%
<b>Column Type</b>	Microcolumn (on chip)
<b>Column Capacity</b>	One
<b>Required</b>	Nitrogen or argon gas supply
<b>Cycle Time</b>	2.5 min/nt
<b>Hands-on Time</b>	1.5 minutes to start; 1 minute for finish
<b>Oligo Purification</b>	Manual (Kilobaser OliPure Kit)
<b>Oligo product condition</b>	Dried

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

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<b>Basic Support*</b>	Yes
<b>Extended Support*</b>	Yes
<b>Scientific Support*</b>	Yes

#### **\*Basic Support:**

After the Kilobaser has arrived at your site, we will help you with the connection and installation in the course of an online set-up call. We are happy to support you until the start of the initial DNA synthesis. This is necessary to prepare the Kilobaser for your custom oligo syntheses. If you have any questions, please do not hesitate to contact us.

#### **\*Extended Support:**

We will give you a detailed introduction to the Kilobaser cartridge and chip system and explain exactly how to set them up on your Kilobaser. We will also show you in detail how to perform the manual cleaning step when changing cartridge types. Since many modifications require an additional purification step, we will train you and your colleagues step by step how to use our OliPure oligonucleotide purification kit to ensure the best oligo quality. If you have any questions, please do not hesitate to contact us.

#### **\*Scientific Support:**

We will be happy to help you evaluate your first synthesis and experiment with Kilobaser synthesized oligonucleotides. If necessary, we will discuss further steps for troubleshooting together. If desired, we can also perform some tests in our laboratory to rule out possible application errors.