

# Pricelist 2016

All our oligonucleotides are checked with LC-MS to ensure uniform high quality through the entire synthesis production.

All products will be delivered in micro tubes, dried in 100 µM format, - unless you mark "dissolved" or chose another "concentration" in our Webshop. Please enquire by e-mail if you cannot find the concentration you want.

## Custom Oligonucleotides

### DNA oligos unmodified, Reverse-Phase Fast Cartridge Purified (RP-FCP)

Synthesis scale	Oligo length	Min. nmol	( cost per base) Dkr	( cost per base) €
10 nmol	15-28 bases	5	2,50	0,34
40 nmol	5-50 bases	15	4,75	0,64
200 nmol	5-50 bases	45	6,00	0,80

### DNA oligos plate Synthesis, RP-FCP purified.

Synthesis scale	Oligo length	Exact nmol	Dkr	€
40 nmol	15-40 bases	10	1,80	0,25

-Minimum 48 oligos per plate

-Order by e-mail, request excel spreadsheet with directions horizontal or vertical.

### DNA oligos

	40 nmol scale		200 nmol scale		1 µmol scale		2 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€	Dkr.	€
5 – 75 bases	4,75	0,64	6,00	0,80	22,25	3,00	34,50	4,60
76 – 125 bases	10,25	1,37	12,25	1,64	30,25	4,04	45,50	6,07
Phosphorothioate single			100,00	13,34	200,00	26,70	300,00	40,00
Phosphorothioate throughout oligo added to base price			15,00	2,00	30,00	4,00	45,00	6,00

-DNA oligos > 50 bp must be HPLC purified, see additional prices in the table below.

-For oligos longer than 125 bases, please enquire.

### RNA oligos

	200 nmol scale		1 µmol scale	
	Dkr.	€	Dkr.	€
10 - 50 bases	40,00	5,34	60,00	8,00
2' OMe-RNA 10 - 50 bp	50,00	6,67	75,00	10,00
2' F-RNA 10 - 50 bp	65,00	8,80	100	13,50
siRNA 10 - 35 bp	40,00	5,34	60,00	8,00

-These RNA oligos must be HPLC purified, see additional prices in the table below.

### HPLC purification

	40 nmol scale		200 nmol scale		1 µmol scale		2 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€	Dkr.	€
RP-HPLC	180	24	230	31	400	54	600	80

## Modifications

A wide variety of modifications can be incorporated into an oligonucleotide. Are you interested in modifications you cannot find in our list? Please [enquire](#), we have more than 300 modifications, - we simply cannot list them all.

### 5' Modifications

	40 nmol scale		200 nmol scale		1 $\mu$ mol scale		2 $\mu$ mol scale	
	Dkr.	€	Dkr.	€	Dkr.	€	Dkr.	€
ATTO-425	-	-	785	105	1256	169	2010	270
ATTO-488	-	-	1080	145	1730	232	2770	372
ATTO 550	-	-	1080	145	1730	232	2770	372
ATTO-565	-	-	785	105	1256	169	2010	270
ATTO-590	-	-	785	105	1256	169	2010	270
ATTO-594	-	-	1080	145	1730	232	2770	372
ATTO-633	-	-	1230	165	2000	268	3200	430
ATTO-647N	-	-	1230	165	2000	268	3200	430
ATTO-680	-	-	1230	165	2000	268	3200	430
6-FAM	245	33	385	52	880	118	1.320	177
HEX	250	34	375	50	880	118	1320	177
TET	250	34	375	50	880	118	1.320	177
JOE	500	67	700	94	1.450	195	2.400	322
Biosearch Blue			810,26	108,73	1296,42	173,97	2074,26	278,35
CAL Fluor® Gold 540 (TET Analog)	225	30	335	45	790	106	1185	159
CAL Fluor Orange 560 (VIC analog)	225	30	335	45	790	106	1185	159
CAL Fluor Red 590 (TAMRA analog)	450	60	720	97	1440	193	2160	290
CAL Fluor Red 610 (Rox analog)	900	120	1350	190	2025	270	3040	408
CAL Fluor Red 635 (LC Red 640 analog)	600	81	890	119	1340	180	2010	270
Quasar® 570 (Cy3 analog)	250	34	400	54	795	107	1185	159
Quasar 670 (Cy5 analog)	250	34	400	54	795	107	1185	159
Amino modifier 5	250	34	640	86	1.280	172	1.920	258
Amino modifier-C12	400	54	500	67	800	107	1.200	161
Amino modifier-C6	90	12	100	13	250	34	375	50
Biotin-C6	190	26	250	34	600	81	900	121
Biotin-TEG	800	107	1.920	258	3.840	515	5760	773
Fluorescein-dT	1.000	134	1500	201	2250	302	3375	453
Hexynyl	275	37	350	20	525	70	790	106
Phosphate	125	17	200	27	320	43	480	64
Thiol-C6	250	34	400	54	880	118	1320	177
Thiol-C6 S-S	400	54	640	86	960	129	1440	193
Digoxigenine	-	-	750	101	1.500	215	2250	302
dInosine	70	9	100	13	224	30	336	45
TAMRA	500	67	800	107	1600	214	2400	322

-Modified DNA oligos must be HPLC purified, see additional price.

## Internal modifications

	40 nmol scale		200 nmol scale		1 µmol scale		2 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€	Dkr.	€
2-Aminopurine	800	107	1.280	172	2.560	343	3840	515
Thiol-C6 S-S	300	40	640	85	1.280	172	1.920	258
5-Br-dU	300	40	480	65	960	129	1.440	194
6-Thio-dG	1.200	161	1.920	258	3.840	515	5.760	773
8-Oxo-dG	1.000	134	1.600	215	3.200	430	4.800	644
Amino-C6-dT	400	54	640	85	1.280	172	1.920	258
intern BHQ-1 dT	1200	64	1.920	258	3.840	516	5.760	773
Biotin-dT	900	120	1.920	258	2.880	387	4.320	580
Spacer 18 -(HEG spacer) (hexaethylene glycol)	400	54	480	64	1.280	172	1.920	258
dSpacer	300	40	480	64	960	128	1440	192
Spacer C3	300	40	640	86	960	129	1.440	194
Spacer C12	400	54	640	86	1280	172	1.920	258
Spacer 9 - (TEG spacer) (triethylene glycol)	300	40	480	64	960	129	1.440	194
Quasar-570 C6-dT	1800	242	2100	282	3600	483	5400	725
Quasar-670 C6-dT	1800	242	2100	282	3600	483	5400	725
Dabcyl-dT	70	134	960	128	3.200	430	4.800	644
dInosine	70	9	100	14	224	30	336	45
dUridine	200	27	480	64	640	85	960	128
Fluorescein-dT	1000	134	1.600	215	1920	258	4800	320
O6-Me-dG	400	54	800	107	1280	172	1920	256
Universal base (5-Nitroindole)	500	67	800	107	1.600	215	3840	960

-Modified DNA oligos must be HPLC purified, see additional price.

## 3' Modifications

	200 nmol scale		1 µmol scale		2 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€
Amino-C6	200	27	800	107	1500	200
ATTO-425	785	105	1256	169	2010	270
ATTO-488	1080	145	1730	232	2770	372
ATTO 550	1080	145	1730	232	2770	372
ATTO-565	785	105	1256	169	2010	270
ATTO-590	785	105	1256	169	2010	270
ATTO-594	1080	145	1730	232	2770	372
ATTO-633	1230	165	2000	268	3200	430
ATTO-647N	1230	165	2000	268	3200	430
ATTO-680	1230	165	2000	268	3200	430
BHQ <sup>®</sup> -1 (Black Hole Quencher <sup>®</sup> 1)	525	70	2500	333	4000	535
BHQ-2 (Black Hole Quencher 2)	525	70	2500	333	4000	535
BHQ-3 (Black Hole Quencher 3)	525	70	2500	333	4000	535
Biotin TEG	350	47	2000	237	3500	467
Biotin-C3	250	33,55	1250	167,74	2187,50	293,55
Spacer-C3	400	53,68	640	85,88	1440	193,24
Dabcyl	600	80	2000	237	3500	467
end redundancy (3' wobble) - mixed	200	27	400	54	600	80
Fluorescein	500	67	2000	267	3500	467
Phosphate	200	27	500	67	900	120
TAMRA	600	80	2000	267	3500	467

-Modified DNA oligos must be HPLC purified, see additional price.

-For other modifications, please enquire.

## Dual-labeled probes

Dual-labeled probes are highly sensitive, normally with a 5' fluorophore and a 3' quencher. They can be used with most real-time qPCR instruments due to their straightforward design and extensive range of fluorophores.

Fluorescence is released through the 5' exonuclease activity of Taq polymerase, which cleaves off the fluorescent dye upon the probe's hybridization to its complementary sequence. Length 10 – 40 bases.

HPLC purified – valuprobe	40 nmol scale		200 nmol scale		1 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€
5'FAM - 3'BHQ-1 probe	499,15	67,00	804,60	108,00	1.192	160,00
5'FAM - 3'TAMRA probe	499,15	67,00	804,60	108,00	1.192	160,00
5'HEX - 3'BHQ-1 probe	700,30	94,00	1.400,60	188,00	2.093,45	281,00
5'CAL Fluor Orange 560(VIC analog) – 3'BHQ-1 probe	700,30	94,00	1.400,60	188,00	2.093,45	281,00

-Order in Webshop

-Single HPLC purification is included in the prices above

Dual-HPLC purified	40 nmol scale		200 nmol scale		1 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€
5'FAM - 3'BHQ-1 probe	677,95	91,00	1035,55	139,00	1594,30	214,00
5'FAM - 3'TAMRA probe	677,95	91,00	1035,55	139,00	1594,30	214,00
5'HEX - 3'BHQ-1 probe	879,10	118,00	1631,55	219,00	2495,75	335,00
5'CAL Fluor Orange 560(VIC analog) – 3'BHQ-1 probe	879,10	118,00	1631,55	219,00	2495,75	335,00
5'CFR 610 (Texas Red/Rox analog) - 3'BHQ-2 prob	879,10	118,00	1720,95	231,00	2652,20	356,00
5'Quasar-670 (Cy5analog) - 3'BHQ-2 probe	1005,75	135,00	1564,50	210,00	2942,75	395,00
5'Quasar®-570 (Cy3analog) - 3'BHQ-2 probe	1370,80	184,00	1899,75	255,00	2682,00	360,00
5'Cyanine-5 – BHQ-2 – probe	1490,00	200,00	2048,75	275,00	3374,85	453,00
5'Cyanine-3 – BHQ-2 -probe	1490,00	200,00	2048,75	275,00	3374,85	453,00

-Dual-HPLC purification is included in the prices above.

-Order by e-mail.

-Other dual labeled probes are available in our Web Shop, if not please enquire.

-If more combinations are wanted please let us know which ones.

## BHQplus™ probes.

The BHQplus™ Probes are a new and advanced probe technology for qPCR that bring researchers many of the benefits of traditional MGB™ probes without their expense. BHQplus™ Probes combine the power of a short, high-fidelity probe with the proven quenching versatility of a non-fluorescent quencher, the Black Hole Quencher® (BHQ®) dye.

	40 nmol scale		200 nmol scale		1 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€
5'FAM - 3'BHQ-1plus™ Probe	1.192	160,00	2.160,50	290,00	3.726	500,00
5'TET - 3'BHQ-1plus™ Probe	1.452,75	195,00	2.607,50	350,00	4.470	600,00
5'Cal Fluor Gold 540 – 3'BHQ-1plus™ Probe	1.192	160,00	2.160,50	290,00	3.726	500,00
5'HEX – BHQ-1plus™ Probe						
5'CAL Fluor Orange 560(VIC analog) – 3'BHQ-1 plus™ Probe	1.452,75	195,00	2.607,50	350,00	4.470	600,00
5'Cal Fluor Red 610 (Texas Red/Rox analog) - 3'BHQ-2plus™ Probe	1.192	160,00	2.160,50	290,00	3.726	500,00
5'Quasar-570 (Cy5analog) - 3'BHQ-2plus™ Probe	1.452,75	195,00	2.607,50	350,00	4.470	600,00
5'Quasar-670 (Cy5analog) - 3'BHQ-2plus™ Probe	1.452,75	195,00	2.607,50	350,00	4.470	600,00

-HPLC purification is included in the prices above.

-Order by e-mail.

### Nova-probes.

The new BHQnova probe is a double-quenched probe, which includes the typical 5' reporter dye and 3' BHQ modifications, but also incorporates an additional internal "Nova" quencher. This new probe format allows for longer probe sequences, maintains excellent quenching efficiency, and improves signal-to-noise ratio (S:N) resulting in robust amplification curves. The BHQnova probe format presents yet another option that allows greater design flexibility to tackle almost any qPCR assay design challenge.

	40 nmol scale		200 nmol scale		1 µmol scale	
	Dkr.	€	Dkr.	€	Dkr.	€
<b>5'FAM - 3'BHQ-1Nova™ Probe</b>	574,18	77,05	925,54	124,20	1833,94	246,10
<b>5'Cal Fluor Gold 540 – 3'BHQ-1Nova™ Probe</b>	1011,24	135,70	1979,62	265,65	2870,88	385,25
<b>5'TET - 3'BHQ-1Nova™ Probe</b>	1011,24	135,70	1979,62	265,65	2870,88	385,25
<b>5'CAL Fluor Orange 560(VIC analog) – 3'BHQ-1 Nova™ Probe</b>	1011,24	135,70	1979,62	265,65	2870,88	385,25
<b>5'TET – 3'BHQ-1Nova™ Probe</b>	1011,24	135,70	1979,62	265,65	2870,88	385,25

-HPLC purification is included in the prices above.

-Order by e-mail.

### Alkaline Phosphatase probes, max. 40 bases IE-HPLC

The delivered enzyme-oligonucleotide monomer complex contains no free enzyme, no free oligonucleotide and less than 25% enzyme oligonucleotide dimer complex. 0,2 nmol of AP-oligonucleotide is sufficient for performing about 200-500 in-situ hybridization experiments.

Please be aware that the oligonucleotide sequence should be 25-36 bases long, there should be no palindromes, secondary- or self-complementary sequences longer than 4 bases and dG stretches longer than 3 bases should be avoided.

	0,2 nmol		0,5 nmol		1 nmol		2 nmol	
	Dkr.	€	Dkr.	€	Dkr.	€	Dkr.	€
<b>TDH Vibrio parahaemolyticus AP</b>	4594	625	6713	895	11.958	1595	30.225	4030
<b>TLH Vibrio parahaemolyticus AP</b>	4694	625	6713	895	11.958	1595	30.225	4030
<b>Vibrio vulnificus gene AP</b>	4694	625	6713	895	11.958	1595	30.225	4030
<b>GAPDH gene AP</b>	4694	625	6713	895	11.958	1595	30.225	4030
<b>TNF-alpha</b>	4694	625	6713	895	11.958	1595	30.225	4030
<b>AP probe custom design</b>	4694	625	6713	895	11.958	1595	30.225	4030

-order by e-mail.

## Increase your independence

Substitute the dyes you are using with alternatives which have proven their value.

Please keep in mind that the values for absorption and emission given below are to be understood as approximate values. The exact parameters strongly depend on the environment of the dye, as pH, salt-conditions, quenching effects can influence.

Post-synthetic chemical modifications made to an oligonucleotide result in lower yields than modifications introduced during synthesis. Further, all NHS Ester modification require HPLC purification.

			40 nmol scale		200 nmol scale	
	Absorption	Emission	Dkr.	€	Dkr.	€
VIC -> HEX	538 -> 535	544 -> 556	250	34	375	50
NED -> Atto 550	553 -> 554	575 -> 579	-	-	1200	160
PET -> Atto565	558 -> 563	595 -> 592	-	-	600	80
LIZ -> Atto 633	638 -> 629	655 -> 657	-	-	1500	200

## Orders are accepted by:

### Website, e-mail or fax.

Please e-mail your order in a spreadsheet.

Please note that we confirm e-mail orders and website orders by making a reply. If you do not receive a reply within one day (depending upon hour of day), we may not have received your order for some reason.

Delivery times may vary depending upon capacity limitations and supply of reagents and chemicals.

### Special Requests

If you do not find the product or modification you are looking for, please do not hesitate to ask: eu@biosearchtech.com.

Our records contains the most common products. However, we often produce oligonucleotides in customer-defined formats, so please enquire if you have any special requests.

## Terms of delivery:

When ordering RP-FCP purified you can choose:

Expected delivery of RP-FCP product 3-4 working day from date of order\*

Express and Superexpress delivery, please inquire, additional charge.

*Bulk order or oligo plate orders may require additional production time, expected delivery 3-5 days.*

\* Cut of hour 10 am.

\*\* Super-express must be purified by EtOH precipitation and ordered by e-mail.

When ordering RP-HPLC purified you can choose:

Expected delivery of RP-HPLC products 6 working days from date of order.

Express delivery, order before 10.00 am, 3 days production time, additional charge: 200 DKK./26,85 EUR per. oligo.

Super-express delivery, order before 10.00 am, ASAP, additional charge: 400 DKK/53,69 EUR per. oligo.\*\*\*

\*\*\* long oligos and some modifications can require additional production time. Please enquire.

Expected delivery on multiple orders and special orders can be added extra working days.

LGC Biosearch Technologies charge 20 DKK/2,68 EUR for the service of re-dissolving oligos.

## Handling & Shipping:

LGC Biosearch charges 85 DKK/11,41 EUR per order for handling.

<b>Freight</b> Courier	<b>Denmark</b> FREE	<b>EU</b> FREE	<b>Outside EU</b> Courier + Handling fee
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## ISO 9001:2008 Certification

The ISO 9001:2008 Certificate covers the whole process of oligonucleotide manufacturing, from receipt of order, through the process of synthesis to satisfied customer. Naturally, environmental control and working environment is integrated in our Quality Management System.

## Legal

For information about trademarks and patents, please visit [eu.biosearchtech.com/legal](http://eu.biosearchtech.com/legal).