



Pricelist 2017

All our oligonucleotides are checked with LC-MS to ensure uniform high quality throughout the entire synthesis production. All products will be delivered dried down in microtubes, unless a different concentration or "Dissolve oligo" is selected in the webshop order form. Please enquire by email if you cannot find your desired concentration.

Custom oligonucleotides

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

Synthesis scale	Oligo length	Min. nmol	(Cost per base) DKK	(Cost per base) €	(Cost per base) £
10 nmol	15-28 bases	5	2.55	0.35	0.26
40 nmol	5-50 bases	15	4.85	0.65	0.48
200 nmol	5-50 bases	45	6.12	0.82	0.61

DNA oligos plate synthesis, RP-FCP purified

Synthesis scale	Oligo length	Exact nmol	DKK	€	£
40 nmol	15-40 bases	10	1.84	0.26	0.19

- Minimum 48 oligos per plate.
- Order by email, request excel spreadsheet with directions horizontal or vertical.

DNA oligos

	40 nmol scale			200 nmol scale			1 µmol scale			2 µmol scale		
	DKK	€	£	DKK	€	£	DKK	€	£	DKK	€	£
5-75 bases	4.85	0.65	0.48	6.12	0.82	0.61	22.70	3.06	2.27	35.19	4.7	3.48
76-125 bases	10.46	1.4	1.04	12.50	1.67	1.24	30.86	4.12	3.05	46.41	6.19	4.59
Phosphorothioate single	-	-	-	102	14	10.37	204	27	20	306	41	30.37
Phosphorothioate throughout oligo added to base price	-	-	-	15	2	1.48	31	5	3.7	46	6	4.44

- DNA oligos >50 bp must be HPLC purified. See purification pricing in HPLC purification table.
- For oligos longer than 125 bases, please enquire.

RNA oligos

	200 nmol scale			1 μ mol scale		
	DKK	€	£	DKK	€	£
10-50 bases	41	5.45	4.04	61	8.16	6.04
2' OMe-RNA 10-50 bp	51	6.8	5.04	76	10.2	7.56
2' F-RNA 10-50 bp	66	8.98	6.65	102	13.77	10.20
siRNA 10-35 bp	41	5.45	4.04	61	8.16	6.04

- These RNA oligos must be HPLC purified. See purification pricing in HPLC purification table.

HPLC purification

	40 nmol scale			200 nmol scale			1 μ mol scale			2 μ mol scale		
	DKK	€	£	DKK	€	£	DKK	€	£	DKK	€	£
RP-HPLC	184	25	18.52	235	32	23.70	408	55	40.74	612	82	60.74

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 and we simply cannot list them all.

5' modifications

	40 nmol scale			200 nmol scale			1 μ mol scale			2 μ mol scale		
	DKK	€	£	DKK	€	£	DKK	€	£	DKK	€	£
ATTO 425		-	-	801	107	79.26	1281	172	127.41	2.05	275	203.70
ATTO 488	-	-	-	1102	148	109.63	1765	237	175.56	2.825	379	280.74
ATTO 550	-	-	-	1102	148	109.63	1765	237	175.56	2.825	379	280.74
ATTO 565	-	-	-	801	107	79.26	1281	172	127.41	2.05	275	203.70
ATTO 590	-	-	-	801	107	79.26	1281	172	127.41	2.05	275	203.70
ATTO 594	-	-	-	1102	148	109.63	1765	237	175.56	2.825	379	280.74
ATTO 633	-	-	-	1255	168	124.44	2.04	273	202.22	3.264	439	325.19
ATTO 647N				1255	168	124.44	2.04	273	202.22	3.264	439	325.19
ATTO 680				1255	168	124.44	2.04	273	202.22	3.264	439	325.19
6-FAM	250	34	25.19	393	53	39.26	898	120	88.89	1.346	181	134.07
HEX	255	35	25.93	383	51	37.78	898	120	88.89	1.346	181	134.07
TET	260	36	26.67	391	52	38.52	1009	122	90.37	1.373	185	137.04

	40 nmol scale			200 nmol scale			1 μ mol scale			2 μ mol scale		
	DKK	€	£	DKK	€	£	DKK	€	£	DKK	€	£
JOE	510	68	50.37	714	96	71.11	1479	199	147.41	2.448	328	242.96
Biosearch Blue™	-	-	-	826	111	82.22	1322	177	131.11	2.116	284	210.37
CAL Fluor® Gold 540 (TET Analog)	230	31	22.96	342	46	34.07	806	108	80.00	1.209	162	120.00
CAL Fluor Orange 560 (VIC® analog)	230	31	22.96	335	46	34.07	806	108	80.00	1.209	162	120.00
CAL Fluor Red 590 (TAMRA analog)	459	61	45.19	734	99	73.33	1469	197	145.93	2.203	296	219.26
CAL Fluor Red 610 (ROX™ analog)	459	61	45.19	734	99	73.33	1469	197	145.93	2.203	296	219.26
CAL Fluor Red 635 (LC® Red 640 analog)	612	83	61.48	908	121	89.63	1367	184	136.30	2.05	275	203.70
Quasar® 570 (Cy3 analog)	255	35	25.93	408	55	40.74	811	109	80.74	1.209	162	120.00
Quasar 670 (Cy5 analog)	255	35	25.93	408	55	40.74	811	109	80.74	1.209	162	120.00
Amino modifier 5	255	35	25.93	653	88	65.19	1306	175	129.63	1.958	263	194.81
Amino modifier-C12	408	55	40.74	510	68	50.37	816	109	80.74	1.224	164	121.48
Amino modifier-C6	92	12	8.89	102	13	9.63	255	35	25.93	383	51	37.78
Biotin-C6	194	27	20.00	255	35	25.93	612	83	61.48	819	123	91.11
Biotin-TEG	816	109	80.74	1.958	263	194.81	3917	525	388.89	5.875	788	583.70
Fluorescein-dT	1.02	137	101.48	1.53	205	151.85	2295	308	228.15	3.443	462	342.22
Hexynyl	281	38	28.15	357	20	14.81	536	71	52.59	806	108	80.00
Phosphate	127	17	12.59	204	28	20.74	326	44	32.59	490	65	48.15
Thiol-C6	255	35	25.93	408	55	40.74	898	120	88.89	1.346	181	134.07
Thiol-C6 S-S	408	55	40.74	653	88	65.19	979	132	97.78	1.469	197	145.93
Digoxiginin	-	-	-	765	103	76.30	1.53	219	162.22	2.295	308	228.15
TAMRA	510	68	50.37	816	109	80.74	1632	218	161.48	2.448	328	242.96

- Modified DNA oligos must be HPLC purified. See purification pricing in HPLC purification table.

Internal modifications

	40 nmol scale			200 nmol scale			1 µmol scale			2 µmol scale		
	DKK	€	£	DKK	€	£	DKK	€	£	DKK	€	£
2-Aminopurine	816	109	80.74	1.306	175	129.63	2611	350	259.26	3927	56	41.48
Thiol-C6 S-S	306	41	30.37	653	87	64.44	1306	175	129.63	1958	263	194.81
5-Br-dU	306	41	30.37	490	66	48.89	979	132	97.78	1469	198	146.67
6-Thio-dG	1.224	164	121.48	1958	263	194.81	3917	525	388.89	5875	788	583.70
8-Oxo-dG	1.02	137	101.48	1632	219	162.22	3264	439	325.19	4896	657	486.67
Amino-C6-dT	408	55	40.74	653	87	64.44	1306	175	129.63	1958	263	194.81
internal BHQ-1 dT	1.224	65	48.15	1958	263	194.81	3917	526	389.63	5875	788	583.70
Biotin-dT	918	122	90.37	1958	263	194.81	2938	395	292.59	4406	592	438.52
Spacer 18 - (HEG spacer) (hexaethylene glycol)	408	55	40.74	490	65	48.15	1306	175	129.63	1958	263	194.81
dSpacer	308	41	30.37	490	65	48.15	979	131	97.04	1469	196	145.19
Spacer C3	306	41	30.37	653	88	65.19	979	132	97.78	1469	198	146.67
Spacer C12	408	55	40.74	653	88	65.19	1306	175	129.63	1958	263	194.81
Spacer 9 - (TEG spacer) (triethylene glycol)	306	41	30.37	490	65	48.15	979	132	97.78	1469	198	146.67
Quasar 570 C6-dT	1.836	247	182.96	2.142	288	213.33	3672	493	365.19	5508	740	548.15
Quasar 670 C6-dT	1.836	247	182.96	2.142	288	213.33	3672	493	365.19	5508	740	548.15
Dabcyl-dT	612	82	60.74	979	131	97.04	3264	439	325.19	4896	657	486.67
dInosine	71	9	6.67	4.94	14	10.37	228	31	31	343	46	34.07
dUridine	204	28	20.74	490	65	48.15	653	87	64.44	797	131	97.04
Fluorescein-dT	1.02	137	101.48	1.632	219	162.22	1958	263	194.81	4896	326	241.48
O6-Me-dG	408	55	40.74	816	109	80.74	1306	175	129.63	1958	261	193.33
Universal base (5-Nitroindole)	510	68	50.37	816	109	80.74	1632	219	162.22	3917	979	725.19

- Modified DNA oligos must be HPLC purified. See purification pricing in HPLC purification table.

3' modifications

	200 nmol scale			1 μ mol scale			2 μ mol scale		
	DKK	€	£	DKK	€	£	DKK	€	£
Amino-C6	204	28	20.74	816	109	80.74	1.53	204	151.11
ATTO 425	801	107	79.26	1281	172	127.41	2.05	277	205.19
ATTO 488	1.102	148	109.63	1765	237	175.56	2825	379	280.74
ATTO 550	1.102	148	109.63	1765	237	175.56	2825	379	280.74
ATTO 565	801	107	79.26	1281	172	127.41	2.05	277	205.19
ATTO 590	801	107	79.26	1281	172	127.41	2.05	277	205.19
ATTO 594	1.102	148	109.63	1765	237	175.56	2825	379	280.74
ATTO 633	1.255	168	124.44	2.04	273	202.22	3264	439	325.19
ATTO 647N	1.255	168	124.44	2.04	273	202.22	3264	439	325.19
ATTO 680	1.255	168	124.44	2.04	273	202.22	3264	439	325.19
BHQ[®]-1 (Black Hole Quencher[®] 1)	536	71	52.59	2.55	340	251.85	4.08	546	404.44
BHQ-2 (Black Hole Quencher 2)	536	71	52.59	2.55	340	251.85	4.08	546	404.44
BHQ-3 (Black Hole Quencher 3)	536	71	52.59	2.55	340	251.85	4.08	546	404.44
Biotin TEG	357	48	35.56	2.04	242	179.26	3.57	476	352.59
Biotin-C3	255	34	25.19	1275	171	126.67	2231	299	221.48
Spacer-C3	408	55	40.74	653	88	65.19	1469	197	145.93
Dabcyl	612	82	60.74	2.04	242	179.26	3.57	476	352.59
end redundancy (3' wobble) - mixed	204	28	20.74	408	55	40.74	612	82	60.74
Fluorescein	510	68	50.37	2.04	272	201.48	3.57	476	352.59
Phosphate	204	28	20.74	510	68	50.37	918	122	90.37
TAMRA	612	82	60.74	2.04	272	201.48	3.57	476	352.59

- Modified DNA oligos must be HPLC purified. See purification pricing in HPLC purification table.

Dual-labelled probes

Deliver high specificity and accuracy for quantitative PCR (qPCR) based applications.

LGC Biosearch offers a range of probe types (BHQ, BHQplus, and BHQnova) for long and short templates, AT and GC-rich sequences, and applications such as CNV, gene expression, SNP detection, and more. Select your probe type based on application and add a dye and quencher based on instrument filter settings and desired multiplex level.

HPLC purified – ValuProbe™	40 nmol scale			200 nmol scale			1 µmol scale		
	DKK	€	£	DKK	€	£	DKK	€	£
5'FAM - 3'BHQ-1 probe	514	69	51.12	828	111	82.40	1.23	165	122.07
5'FAM - 3'TAMRA probe	514	69	51.12	829	111	82.40	1.23	165	122.07
5'HEX - 3'BHQ-1 probe	721	97	71.72	1.44	194	143.44	2.16	289	214.39
5'CAL Fluor Orange 560 (VIC analog) – 3'BHQ-1 probe	721	97	71.72	1.44	194	143.44	2.16	289	214.39

- Order in webshop.
- Single HPLC purification is included in the prices above.

Dual-HPLC purified	40 nmol scale			200 nmol scale			1 µmol scale		
	DKK	€	£	DKK	€	£	DKK	€	£
5'FAM - 3'BHQ-1 probe	698	94	69.43	1067	143	106.05	1642	220	163.29
5'FAM - 3'TAMRA probe	698	94	69.43	1067	143	106.05	1642	220	163.29
5'HEX - 3'BHQ-1 probe	905	122	90.03	1681	226	167.09	2571	345	255.59
5'CAL Fluor Orange 560 (VIC analog) - 3'BHQ-1 probe	905	122	90.03	1681	226	167.09	2571	365	255.59
5'CAL Fluor Red 610 (Texas Red/ROX analog) - 3'BHQ-2 prob	905	122	90.03	1773	238	176.24	2762	371	274.67
5'Quasar 670 (Cy5 analog) - 3'BHQ-2 probe	1.04	139	103.00	1611	216	160.22	3031	407	301.37
5'Quasar 570 (Cy3 analog) - 3'BHQ-2 probe	1.41	190	140.39	1957	263	194.56	2762	371	274.67
5'Cyanine-5 - BHQ-2 - probe	1.53	206	152.59	2110	283	209.81	3476	467	345.60

- Dual-HPLC purification is included in the prices above.
- Order by email.
- Other dual-labelled probes available on our webshop. If you do not see your selection, enquire about our custom solutions.
- Contact us if you would like additional combinations.

BHQplus probes

The BHQplus® probes combine the unsurpassed efficiency of the Black Hole Quencher dye with superior mismatch discrimination for qPCR applications that require the highest fidelity. For use with probes up to 15-25 bases in length.

	40 nmol scale			200 nmol scale			1 µmol scale		
	DKK	€	£	DKK	€	£	DKK	€	£
5'FAM - 3'BHQ-1plus Probe	1.228	165	122.07	2.22	299	221.26	3.84	515	381.48
5'TET - 3'BHQ-1plus Probe	1.497	201	148.77	2.69	361	267.06	4.60	618	457.78
5'CAL Fluor Gold 540 – 3'BHQ-1plus Probe	1.497	201	148.77	2.69	361	267.06	4.60	618	457.78
5'CAL Fluor Orange 560 (VIC analog) – 3'BHQ-1plus Probe	1.497	201	148.77	2.69	361	267.06	4.60	618	457.78
5'CAL Fluor Red 610 (Texas Red/ROX analog) - 3'BHQ-2plus Probe	1.497	201	148.77	2.69	361	267.06	4.60	618	457.78
5'Quasar 570 (Cy5 analog) - 3'BHQ-2plus Probe	1.497	201	148.77	2.69	361	267.06	4.60	618	457.78
5'Quasar 670 (Cy5 analog) - 3'BHQ-2plus Probe	1.497	201	148.77	2.69	361	267.06	4.60	618	457.78

- HPLC purification is included in the prices above.

- Order by email.

BHQnova probes

BHQnova™ probes are double quenched and engineered to provide maximum quenching efficiency, low background, and enhanced signal detection for AT-rich transcripts or probes that are greater than 25 bases in length.

Dual-HPLC purified	40 nmol scale			200 nmol scale			1 µmol scale		
	DKK	€	£	DKK	€	£	DKK	€	£
5'FAM - 3'BHQ-1nova probe	591	79	58.75	954	128	94.61	1.89	253	187.69
5'CAL Fluor Gold 540 - 3'BHQ-1nova probe	1.041	140	103.76	2.04	274	202.95	2.96	397	293.74
5'TET - 3'BHQ-1nova probe	1.041	140	103.76	2.04	274	202.95	2.96	397	293.74
5'CAL Fluor Orange 560 (VIC analog) - 3'BHQ-1nova probe	1.041	140	103.76	2.04	274	202.95	2.96	397	293.74
5'HEX - 3'BHQ-1nova probe	1.041	140	103.76	2.04	274	202.95	2.96	397	293.74

- HPLC purification is included in the prices above.

- Order by email.

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* hybridisation experiments.

We recommend oligonucleotide sequences to be 25-36 bases long void of palindromes and secondary- or self-complementary sequences longer than 4 bases. dG stretches longer than 3 bases should be avoided.

	0.2 nmol			0.5 nmol			1 nmol			5 nmol		
	DKK	€	£	DKK	€	£	DKK	€	£	DKK	€	£
TDH Vibrio parahaemolyticus AP	4.788	643	476.30	6846	913	676.30	12196	1637	1.21	30.83	4138	3.07
TLH Vibrio parahaemolyticus AP	4.788	643	476.30	6846	913	676.30	12196	1637	1.21	30.83	4138	3.07
Vibrio vulnificus gene AP	4.788	643	476.30	6846	913	676.30	12196	1637	1.21	30.83	4138	3.07
GAPDH gene AP	4.788	643	476.30	6846	913	676.30	12196	1637	1.21	30.83	4138	3.07
TNF-alpha	4.788	643	476.30	6846	913	676.30	12196	1637	1.21	30.83	4138	3.07
AP probe custom design	4.788	643	476.30	6846	913	676.30	12196	1637	1.21	30.83	4138	3.07

- Order by email.

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 influencing factors include pH, salt conditions and quenching effects.

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	DKK	€	£	DKK	€	£
VIC -> HEX	538 -> 535	544 -> 556	250	34	25.19	375	50	37.04
NED -> ATTO 550	553 -> 554	575 -> 579	-	-	-	1.2	160	118.52
PET -> ATTO 565	558 -> 563	595 -> 592	-	-	-	600	80	59.26
LIZ -> ATTO 633	638 -> 629	655 -> 657	-	-	-	1.5	200	148.15

Orders are accepted by

Website, email or fax

- Please email your order in a spreadsheet.
- All email and website orders are confirmed with an email reply. If you do not receive a confirmation email within one business day, your order may not have been submitted.
- 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, or if you are interested in OEM or GMP-grade oligonucleotides, please do not hesitate to ask: eu@biosearchtech.com.
- Our records contain 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 days from date of order.*
- Express and Super-express** delivery. Please enquire as additional charges may apply.

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

** Cut off hour 10 am.*

*** Super-express must be purified by EtOH precipitation and ordered by email.*

When ordering RP-HPLC purified you can choose:

- Expected delivery of RP-HPLC products 6 working days from date of order.
- Express delivery. Orders must be placed before 10 am. 3-day production time. Additional charge: 200 DKK/26.85 EUR per oligo.
- Super-express delivery. Orders must be placed before 10 am. Production 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 add extra working days.

An additional service charge of 20 DKK/2.68 EUR is applied for re-dissolving oligos.

Handling and shipping

LGC Biosearch Technologies charges 85 DKK/11.41 EUR per order for handling.

Freight	Denmark	EU	Outside EU
Courier	FREE	FREE	Courier + handling fee

ISO 9001:2008 certification

The Quality Management System in place at LGC Biosearch Technologies has been developed to be fully compliant with the requirements of the ISO 9001:2008 standard.

Legal

For information about trademarks and patents, please visit eu.biosearchtech.com/legal.

eu.biosearchtech.com • eu@biosearchtech.com

 [@LGCGenomics](https://twitter.com/LGCGenomics)  [LGC.Genomics](https://www.facebook.com/LGC.Genomics)  [LGC.Genomics](https://www.linkedin.com/company/LGC.Genomics)



Connect with us
eu.biosearchtech.com • eu@biosearchtech.com

Technical support: techsupport@biosearchtech.com
Customer service: eu@biosearchtech.com
Tel: +45 87 32 30 00