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DNA OLIGONUCLEOTIDES

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DNA PRICE LIST

DNA OLIGONUCLEOTIDES

SYNTHESIS SCALE ¹	XS 0,02 µmol	S 0,05 µmol	M 0,2 µmol	L 1,0 µmol	XL 10,0 µmol
Price per base	0,28 £	0,35 £	0,63 £	1,60 £	9,50 £
Cartridge purification yield (Cartridge) ²	no extra charge > 2 OD	no extra charge 3 – 5 OD	no extra charge 10 – 20 OD	no extra charge 30 – 60 OD	no extra charge 200 – 400 OD
HPLC purification per oligo yield (HPLC) ²	–	6,50 £ 3 – 5 OD	6,50 £ 10 – 20 OD	14,00 £ 30 – 60 OD	44,00 £ 200 – 400 OD
PAGE purification per oligo yield (PAGE) ²	–	20,00 £ 1 – 3 OD	20,00 £ 3 – 6 OD	35,00 £ 10 – 20 OD	on request

PHOSPHOTHIOATE OLIGOS (PTO)

SYNTHESIS SCALE	S	M	L	XL
Phosphothioate (only „Full“-PTO)	2,00 £	2,00 £	4,00 £	20,00 £
Phosphothioate (for individual PTO)	4,50 £	4,50 £	9,90 £	33,30 £

MID-SCALE DNA SYNTHESIS (XXL)

SYNTHESIS SCALE	XXL10MG	XXL25MG	XXL50MG	XXL100MG	XXL250MG	XXL500MG
Yield (mg)	> 10 mg	> 25 mg	> 50 mg	> 100 mg	> 250 mg	> 500 mg
Yield (OD), approx.	350 OD	850 OD	1700 OD	3400 OD	8500 OD	17000 OD
Yield (µmol) 20mer, approx.	1,5 µmol	3,5 µmol	7,5 µmol	15 µmol	38 µmol	77 µmol
Price per base	17,10 £	22,50 £	31,50 £	49,50 £	81,00 £	135,00 £
Price per base PTO	29,70 £	36,00 £	49,50 £	67,50 £	99,00 £	153,00 £
HPLC purification inclusive	yes	yes	yes	yes	yes	yes

These scales are valid for DNA oligos from 12 to 40 bases without wobbles and modifications. XXL scale oligonucleotides are available with purification by gel filtration or reverse phase HPLC purification. Each oligo will be quality checked by MALDI mass spectrometry. The final amounts are approximate values and valid for a 20mer DNA oligonucleotide with a mixed sequence and not for homopolymers.

SYNTHESIS SCALE	S	M	L
Wobbles (standard)	no extra charge	no extra charge	no extra charge
Wobbles (special mixture)	24,00 £	24,00 £	24,00 £
RNA base	22,00 £	22,00 £	44,00 £
2'-O-Methyl-RNA base	35,10 £	35,10 £	44,00 £
2'-O-Methoxyethyl-RNA base	126,00 £	126,00 £	126,00 £
2'-O-Propargyl-RNA base	67,50 £	85,50 £	130,50 £
2'-Fluoro-deoxy base	27,00 £	36,00 £	54,00 £
reverse DNA base	22,00 £	22,00 £	44,00 £
L-DNA base ³	starting at 27,00 £	starting at 27,00 £	starting at 54,00 £
2'-Deoxy-Inosine	6,00 £	6,50 £	7,00 £
2'-Deoxy-Uridine	6,00 £	6,50 £	7,00 £
5-Methyl-deoxy-Cytidine (5-Me-dC)	6,00 £	6,50 £	7,00 £
5-Hydroxymethyl-deoxy-Cytidine	on request	on request	on request
5-Brom-deoxy-Uridine	on request	on request	on request
8-Oxo-deoxy-Guanosine	on request	on request	on request
Amino C6 dT	63,00 £	94,50 £	144,00 £
dR Amino	53,10 £	94,50 £	166,50 £
dT Biotin	189,00 £	261,00 £	410,00 £
Thiol C6 SS	119,00 £	154,00 £	270,00 £
dSpacer	40,50 £	58,50 £	80,00 £
Spacer C3	58,50 £	72,00 £	108,00 £
Spacer C12	on request	on request	on request
Spacer 9	on request	on request	on request
Spacer 12	on request	on request	on request
Spacer 18 (HEG)	38,00 £	45,00 £	60,00 £

MODIFICATIONS	5'			3'		
	S	M	L	S	M	L
Guaranteed yield ²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
Acridium Ester	207,00 €	261,00 €	369,00 €	207,00 €	261,00 €	369,00 €
Acrylamide	94,50 €	148,50 €	225,00 €	–	–	–
Alkyne (ACH)	71,10 €	130,50 €	202,50 €	71,10 €	130,50 €	202,50 €
Aminolink C12	on request	on request	on request	–	–	–
Aminolink C6 MMT	15,00 €	18,00 €	22,00 €	22,00 €	29,00 €	55,00 €
Azide (Azidobenzoate)	53,10 €	85,50 €	130,50 €	71,10 €	130,50 €	202,50 €
Biotin	22,00 €	28,00 €	40,00 €	–	–	–
Biotin-C6	54,00 €	72,00 €	94,50 €	–	–	–
Biotin-TEG	53,10 €	67,50 €	108,00 €	28,00 €	45,00 €	66,00 €
Carboxy Modifier C10	on request	on request	on request	–	–	–
Carboxymethylanilin (4-CMA)	81,00 €	130,50 €	202,50 €	130,50 €	202,50 €	324,00 €
Cholesterol ³	starting at 81,00 €	starting at 108,00 €	265,50 €	71,10 €	130,50 €	202,50 €
DBCO	26,10 €	35,10 €	53,10 €	94,50 €	148,50 €	225,00 €
2', 3'-Dideoxy-Cytidin (ddC)	–	–	–	108,00 €	162,00 €	630,00 €
Digoxigenin	53,10 €	67,50 €	108,00 €	63,00 €	90,00 €	166,50 €
DNP	22,00 €	28,00 €	40,00 €	22,00 €	29,00 €	55,00 €
Dual Biotin	150,00 €	150,00 €	225,00 €	–	–	–
Ethane-Diol	on request	on request	on request	–	–	–
Ferrocene	63,00 €	101,50 €	157,50 €	126,00 €	175,00 €	247,50 €
Hexynyllinker	on request	on request	on request	–	–	–
Inverted End (3'-3')	–	–	–	14,00 €	28,00 €	55,00 €
Maleimidlink	85,50 €	148,50 €	270,00 €	130,50 €	225,00 €	405,00 €
Methylene blue	73,50 €	115,20 €	175,00 €	103,50 €	175,50 €	351,00 €
Norbornene	53,10 €	94,50 €	166,50 €	–	–	–

MODIFICATIONS	5'			3'		
	S	M	L	S	M	L
SYNTHESIS SCALE						
Guaranteed yield²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
Phosphate	15,00 €	18,00 €	22,00 €	15,00 €	22,00 €	30,00 €
Psoralen C6	on request	on request	on request	–	–	–
Puromycin	–	–	–	22,00 €	29,00 €	55,00 €
SCO PEG3	80,10 €	130,50 €	202,50 €	–	–	–
Succinate	47,00 €	74,00 €	140,00 €	–	–	–
TCO	80,10 €	130,50 €	202,50 €	94,50 €	148,50 €	225,00 €
Tetrazine (Methyltetrazine PEG5)	94,50 €	148,50 €	225,00 €	94,50 €	148,50 €	225,00 €
Thioctic Acid	56,00 €	116,00 €	180,00 €	95,00 €	195,00 €	300,00 €
Thiol C3	–	–	–	28,00 €	45,00 €	66,00 €
Thiol C6	28,00 €	45,00 €	60,00 €	145,00 €	225,00 €	300,00 €
Thiol C6 SS	72,00 €	108,00 €	144,00 €	–	–	–
Thiophosphate	31,50 €	40,50 €	54,00 €	31,50 €	40,50 €	54,00 €
Tocopherol	71,10 €	130,50 €	202,50 €	71,10 €	130,50 €	202,50 €
Trimethoxystilbene	on request	on request	on request	–	–	–

MODIFICATIONS	5'			3'		
	S	M	L	S	M	L
Guaranteed yield ²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
AMCA	52,00 €	110,00 €	165,00 €	52,00 €	75,00 €	135,00 €
Atto 425, Atto 465, Atto 520, Atto 565, Atto 590	41,30 €	73,50 €	129,50 €	76,00 €	132,00 €	240,00 €
Atto 390, Atto 488, Atto 495, Atto 532, Atto 550, Atto 594	72,00 €	116,00 €	180,00 €	116,00 €	180,00 €	288,00 €
Atto 542, Atto 620, Atto 633, Atto 647N, Atto 655, Atto 680, Atto Rho101, Atto Rho11, Atto Rho12, Atto Rho6G	84,00 €	132,00 €	200,00 €	132,00 €	200,00 €	320,00 €
BDP FL, BDP R6G, BDP TMR, BDP 581/591, BDP TR, BDP 630/650 X	36,00 €	67,50 €	108,00 €	53,10 €	94,50 €	166,50 €
Carboxyrhodamin 110	55,00 €	105,00 €	135,00 €	85,50 €	148,50 €	270,00 €
Cyanine 3, Cyanine 5, Cyanine 3.5, Cyanine 5.5	28,00 €	55,00 €	85,00 €	47,50 €	84,00 €	148,00 €
Cyanine 7	47,50 €	84,00 €	148,00 €	47,50 €	84,00 €	148,00 €
DY-350-XL, DY-370-XL, DY-375-XL, DY-380-XL, DY-395-XL	71,10 €	130,50 €	199,80 €	103,50 €	175,50 €	351,00 €
DY-475-XL, DY-480-XL, DY-485-XL, DY-490, DY-495, DY-500-XL, DY-510-XL, DY-520-XL, DY-521-XL, DY-530, DY-547 P1, DY-550, DY-555, DY-556, DY-590, DY-615, DY-631, DY-636, DY-647 P1, DY-651, DY-676, DY-679, DY-700, DY-701, DY-751	60,00 €	110,00 €	165,00 €	85,00 €	145,00 €	290,00 €

MODIFICATIONS	5'			3'		
SYNTHESIS SCALE	S	M	L	S	M	L
Guaranteed yield ²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
DY-681, DY-682,	42,00 €	110,00 €	165,00 €	85,00 €	145,00 €	290,00 €
DY-781, DY-782						
Fam	22,00 €	28,00 €	40,00 €	22,00 €	29,00 €	55,00 €
FITC	36,00 €	45,00 €	81,00 €	36,00 €	45,00 €	81,00 €
Hex	25,00 €	45,00 €	85,00 €	71,10 €	84,00 €	148,00 €
Joe	28,00 €	55,00 €	85,00 €	47,50 €	84,00 €	148,00 €
Oregon Green 488, Oregon Green 514	52,00 €	110,00 €	165,00 €	85,00 €	145,00 €	290,00 €
Pacific Blue	52,00 €	110,00 €	165,00 €	85,00 €	145,00 €	290,00 €
Rhodamin 6G	28,00 €	55,00 €	85,00 €	47,50 €	84,00 €	148,00 €
Rhodamin Green-X, Rhodamin Red	52,00 €	110,00 €	165,00 €	85,00 €	145,00 €	290,00 €
Rox	28,00 €	55,00 €	85,00 €	47,50 €	84,00 €	148,00 €
Sima	31,50 €	54,00 €	108,00 €	–	–	–
Tamra	28,00 €	55,00 €	85,00 €	47,50 €	84,00 €	148,00 €
Tet	25,00 €	45,00 €	85,00 €	–	–	–
Texas Red-X	52,00 €	110,00 €	165,00 €	85,00 €	145,00 €	290,00 €
Yakima Yellow	112,50 €	175,50 €	351,00 €	–	–	–

MODIFICATIONS	5'			3'		
SYNTHESIS SCALE	S	M	L	S	M	L
Guaranteed yield ²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
BMN-Q460, BMN-Q535,	71,10 £	94,50 £	166,50 £	53,10 £	94,50 £	166,50 £
BMN-Q590, BMN-Q620,						
BMN-Q650						
BBQ-650	–	–	–	starting at 71,10 £	starting at 112,50 £	starting at 202,50 £
BHQ-1	202,50 £	261,00 £	351,00 £	71,10 £	112,50 £	202,50 £
BHQ-2	202,50 £	261,00 £	351,00 £	71,10 £	112,50 £	202,50 £
Dabcyl	42,00 £	75,00 £	135,00 £	42,00 £	75,00 £	135,00 £
DDQ I	–	–	–	71,10 £	112,50 £	202,50 £
DDQ II	–	–	–	71,10 £	112,50 £	202,50 £
TQ2	–	–	–	71,10 £	112,50 £	202,50 £
TQ3	–	–	–	71,10 £	112,50 £	202,50 £

INTERNAL FLUORESCENT MODIFICATIONS | INTERNAL QUENCHERS

Part 1

SYNTHESIS SCALE	S	M	L
Guaranteed yield ²	>2 OD	>5 OD	>15 OD
dT-Atto dye	207,00 £	279,00 £	391,50 £
dT-Cyanine 3, Cyanine 5, Cyanine 5.5	189,00 £	261,00 £	369,00 £
dT-DY dye	207,00 £	279,00 £	391,50 £
dT-Fam	94,50 £	112,50 £	166,50 £
dT-Hex	189,00 £	261,00 £	369,00 £
dT-Joe	189,00 £	261,00 £	369,00 £
dT-Rhodamin 6G	189,00 £	261,00 £	369,00 £
dT-Rhodamin Green-X	261,00 £	351,00 £	531,00 £
dT-Rox	189,00 £	261,00 £	369,00 £

SYNTHESIS SCALE ¹	S	M	L
Guaranteed yield ²	>2 OD	> 5 OD	> 15 OD
dT- Tamra	189,00 £	261,00 £	369,00 £
dR-DDQ I	53,10 £	94,50 £	166,50 £
dR-DDQ II	71,10 £	130,50 £	202,50 £
dT- BHQ-1, BHQ-2	441,00 £	on request	on request
dT- Dabcyl	197,40 £	197,40 £	224,00 £

DUAL LABELLED PROBES⁵

SYNTHESIS SCALE	S	M	L	
Guaranteed yield ²	>1 OD	>3 OD	> 6 OD	
5'-Fluorophor	3'-Quencher			
Fam, Hex, Sima, Tet, Tamra, Cyanine 3, Rox, California Red, Cyanine 3.5, Cyanine 5, Cyanine 5.5	BMN-Q535, TQ2, TQ3, BHQ-1, BHQ-2, BBQ-650, Dabcyl, Tamra	85,50 £	216,00 £	360,00 £
Yakima Yellow, Joe, Texas Red, Atto Dyes, Dyomics Dyes	BMN-Q535, TQ2, TQ3, BHQ-1, BHQ-2, BBQ-650, Dabcyl	175,50 £	216,00 £	360,00 £

MOLECULAR BEACON PROBES⁶

SYNTHESIS SCALE	S	M	L	
Guaranteed yield ²	>1 OD	>3 OD	> 6 OD	
5'-Fluorophor	3'-Quencher			
Fam, Hex, Sima, Tet, Cyanine 3, Rox, California Red, Cyanine 3.5, Cyanine 5, Cyanine 5.5	BMN-Q535, TQ2, TQ3, BHQ-1, BHQ-2, BBQ-650, Dabcyl	112,50 £	270,00 £	450,00 £
Yakima Yellow, Joe, Texas Red, Atto Dyes, Dyomics Dyes	BMN-Q535, TQ2, TQ3, BHQ-1, BHQ-2, BBQ-650, Dabcyl	211,50 £	306,00 £	531,00 £

Annotation to Dual labelled probes and Molecular Beacons

All standard fluorophore/quencher combinations can be ordered online.

If you need a combination that is not listed here, please do not hesitate to contact us.

SYNTHESIS SCALE			S	M	L
Guaranteed yield ²			> 1 OD	> 2 OD	> 4 OD
5'-Fluorophor	Quencher	Blocker			
6-Fam, Hex, Tet	int. BHQ-1	Spacer 18	232,00 £	312,00 £	415,00 £
Cyanine 3, Cyanine 5	int. BHQ-2	Spacer 18	232,00 £	312,00 £	416,00 £
6-Fam, Hex, Tet	int. Dabcyl	Spacer 18	216,00 £	296,00 £	400,00 £
Cyanine 3, Cyanine 5	int. Dabcyl	Spacer 18	216,00 £	296,00 £	400,00 £
Atto dye, DY dye	int. BHQ	Spacer 18	355,00 £	445,50 £	585,00 £

OLIGONUCLEOTIDE HRP CONJUGATE (HORSERADISH PEROXIDASE CONJUGATE)⁸

SYNTHESIS SCALE			S	M	L
Guaranteed yield ²			> 1 OD	> 2 OD	> 4 OD
Price per Conjugate			170,00 £	280,00 £	490,00 £

DOPE - FISH PROBES⁵

SYNTHESIS SCALE			S	M	L
Guaranteed yield ²			> 1 OD	> 3 OD	> 6 OD
3', 5'-Fam, FITC, Cyanine 3, Cyanine 5, Tamra			108,00 £	166,50 £	270,00 £

FOR OLIGOS IN TUBES

Concentration adjustment from 50 – 500 µM	per oligo	0,75 £
Additional aliquots	per aliquot	0,75 £

FOR OLIGOS IN 96 DEEPWELL-PLATES (for more than 50 oligonucleotides)

Concentration adjustment from 50 – 500 µM	per oligo	0,75 £
96 Deepwell Plate ⁹	type A / type B	no extra charge

FURTHER SERVICES ARE AVAILABLE ON REQUEST E. G.:

Purifications	Ion exchange HPLC (IEX-HPLC) / multiple reverse phase HPLC / gel filtration
Analytics	Capillary gel electrophoresis (CE) / analytical HPLC / electrospray mass spectrometry / fluorescence spectroscopy
Quantify and dissolution	extensive verification of concentrations / several buffer systems / aliquots
Documentation	Extended documentation / lot tracing / E-certificate



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www.biomers.net

CUSTOMER SUPPORT

You have any questions or suggestions? Do you need modifications, which aren't listed? Contact us!

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1 The synthesis scale reflects the amount of starting material and not the final yield. The minimum length for scales XS and S is 12 bases, for scales M, L and XL 6 bases. The maximum length for scale XS is 60 bases for scales S, M, L 140 bases, for scale XL 40 bases. Synthesis Scale XS is only available with cartridge purification. Each oligo up to 50 bases is quality checked by Maldi mass spectrometry.

2 The delivery amounts are valid for mixed sequences and may vary for oligonucleotides with strong secondary structures and homopolymers. The lower yields are guaranteed for a 20mer DNA oligonucleotide.

3 The price depends on the number of identical modifications per order. Please do not hesitate to contact our customer support for more information.

4 Prices per modification are valid for single modified oligonucleotides and include the HPLC purification of the oligonucleotide. Maximum length for 5'-modified oligos is 80 bases, maximum length for 3'-modified oligos is 45 bases. Longer oligos with end modifications on request.

5 Prices include DNA oligonucleotide with max. 40 bases, 5'- and 3'-modification, HPLC purification and Maldi control.

6 Molecular Beacon Probes are characterised by a probing sequence and two arms of 5 - 7 nucleotides at the 3'- and 5'-end of the oligonucleotide being self-complementary to each other; the Molecular Beacon forms a hairpin loop. Prices include DNA oligonucleotide with max. 40 bases, 5'- and 3'-modification, HPLC purification and MALDI control.

7 Prices include DNA oligonucleotide with max. 60 bases, 5'-fluorophor, internal modification dT-Dabcyl or dT-BHQ, internal modification spacer 18, HPLC purification and Maldi control.

8 Price includes DNA oligonucleotide up to 30 bases, conjugation and PAGE purification.

9 Type A: plate is sealed with puncturable foil. Type B: plate is sealed with non-puncturable, removable foil. For >50 oligos per plate, with oligos in columns without gaps. For other plate configurations please ask for prices and instructions.

10 On all articles except shipping costs.

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