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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	0,39 €	0,49 €	0,89 €	2,39 €	14,00 €
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	–	9,00 € 3 – 5 OD	9,00 € 10 – 20 OD	19,00 € 30 – 60 OD	59,00 € 200 – 400 OD
PAGE purification per oligo yield (PAGE) ²	–	29,00 € 1 – 3 OD	29,00 € 3 – 6 OD	49,00 € 10 – 20 OD	on request

PHOSPHOTHIOATE OLIGOS (PTO)

SYNTHESIS SCALE	S	M	L	XL
Phosphothioate (only „Full“-PTO)	3,00 €	3,00 €	6,00 €	30,00 €
Phosphothioate (for individual PTO)	5,00 €	5,00 €	11,00 €	37,00 €

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	19,00 €	25,00 €	35,00 €	55,00 €	90,00 €	150,00 €
Price per base PTO	33,00 €	40,00 €	55,00 €	70,00 €	110,00 €	170,00 €
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)	30,00 €	30,00 €	30,00 €
RNA base	30,00 €	30,00 €	60,00 €
2'-O-Methyl-RNA base	39,00 €	39,00 €	60,00 €
2'-O-Methoxyethyl-RNA base	140,00 €	140,00 €	140,00 €
2'-O-Propargyl-RNA base	75,00 €	95,00 €	145,00 €
2'-Fluoro-deoxy base	30,00 €	40,00 €	60,00 €
reverse DNA base	30,00 €	30,00 €	60,00 €
L-DNA base ³	starting at 30,00 €	starting at 30,00 €	starting at 60,00 €
2'-Deoxy-Inosine	8,00 €	9,00 €	10,00 €
2'-Deoxy-Uridine	8,00 €	9,00 €	10,00 €
5-Methyl-deoxy-Cytidine (5-Me-dC)	8,00 €	9,00 €	10,00 €
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	70,00 €	105,00 €	160,00 €
dR Amino	59,00 €	105,00 €	185,00 €
dT Biotin	210,00 €	290,00 €	410,00 €
Thiol C6 SS	170,00 €	220,00 €	270,00 €
dSpacer	45,00 €	65,00 €	80,00 €
Spacer C3	65,00 €	80,00 €	120,00 €
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 €	

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	230,00 €	290,00 €	410,00 €	230,00 €	290,00 €	410,00 €
Acrylamide	105,00 €	165,00 €	250,00 €	–	–	–
Alkyne (ACH)	79,00 €	145,00 €	225,00 €	–	–	–
Aminolink C12	on request	on request	on request	–	–	–
Aminolink C6 MMT	20,00 €	25,00 €	30,00 €	30,00 €	40,00 €	80,00 €
Azid	79,00 €	145,00 €	225,00 €	–	–	–
Biotin	30,00 €	40,00 €	60,00 €	–	–	–
Biotin-C6	60,00 €	80,00 €	105,00 €	–	–	–
Biotin-TEG	59,00 €	75,00 €	120,00 €	40,00 €	60,00 €	90,00 €
Carboxy Modifier C10	on request	on request	on request	–	–	–
Carboxymethylanilin (4-CMA)	90,00 €	145,00 €	225,00 €	145,00 €	225,00 €	300,00 €
Cholesterol ³	starting at 90,00 €	starting at 120,00 €	295,00 €	79,00 €	145,00 €	225,00 €
2', 3'-Dideoxy-Cytidin (ddC)	–	–	–	120,00 €	180,00 €	700,00 €
Digoxigenin	59,00 €	75,00 €	120,00 €	70,00 €	100,00 €	185,00 €
DNP	30,00 €	40,00 €	60,00 €	30,00 €	40,00 €	60,00 €
Dual Biotin	160,00 €	240,00 €	400,00 €	–	–	–
Ethane-Diol	on request	on request	on request	–	–	–
Ferrocene	90,00 €	145,00 €	225,00 €	140,00 €	195,00 €	275,00 €
Hexynyllinker	on request	on request	on request	–	–	–
Inverted End (3'-3')	–	–	–	20,00 €	40,00 €	80,00 €
Maleimidlink	95,00 €	165,00 €	300,00 €	145,00 €	250,00 €	450,00 €
Methylene blue	105,00 €	165,00 €	250,00 €	115,00 €	195,00 €	390,00 €
Palmitate	–	–	–	59,00 €	105,00 €	185,00 €

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

MODIFICATIONS	5'			3'		
	S	M	L	S	M	L
Guaranteed yield²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
Phosphate	20,00 €	25,00 €	30,00 €	20,00 €	30,00 €	40,00 €
Psoralen C6	on request	on request	on request	–	–	–
Puromycin	–	–	–	30,00 €	40,00 €	80,00 €
Succinate	55,00 €	85,00 €	150,00 €	–	–	–
Thioctic Acid	70,00 €	145,00 €	225,00 €	95,00 €	195,00 €	300,00 €
Thiol C3	–	–	–	40,00 €	60,00 €	90,00 €
Thiol C6	40,00 €	60,00 €	80,00 €	145,00 €	225,00 €	300,00 €
Thiol C6 SS	80,00 €	120,00 €	160,00 €	–	–	–
Thiophosphate	35,00 €	45,00 €	60,00 €	35,00 €	45,00 €	60,00 €
Tocopherol	79,00 €	145,00 €	225,00 €	79,00 €	145,00 €	225,00 €
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	70,00 €	145,00 €	225,00 €	70,00 €	100,00 €	185,00 €
Atto 425, Atto 465, Atto 520, Atto 565, Atto 590	59,00 €	105,00 €	185,00 €	95,00 €	165,00 €	300,00 €
Atto 390, Atto 488, Atto 495, Atto 532, Atto 550, Atto 594	90,00 €	145,00 €	225,00 €	145,00 €	225,00 €	360,00 €
Atto 542, Atto 620, Atto 633, Atto 647N, Atto 655, Atto 680, Atto Rho101, Atto Rho11, Atto Rho12, Atto Rho6G	105,00 €	165,00 €	250,00 €	165,00 €	250,00 €	400,00 €
BDP FL, BDP R6G, BDP TMR, BDP 581/591, BDP TR, BDP 630/650 X	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
California Red	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Carboxyrhodamin 110	79,00 €	105,00 €	185,00 €	95,00 €	165,00 €	300,00 €
Cyanine 3, Cyanine 5, Cyanine 3.5, Cyanine 5.5	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Cyanine 7	59,00 €	105,00 €	185,00 €	59,00 €	105,00 €	185,00 €
DY-350-XL, DY-370-XL, DY-375-XL, DY-380-XL, DY-395-XL, 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	79,00 €	145,00 €	225,00 €	115,00 €	195,00 €	390,00 €

MODIFICATIONS	5'			3'		
	S	M	L	S	M	L
Guaranteed yield²	>2 OD	>5 OD	>15 OD	>2 OD	>5 OD	>15 OD
DY-681, DY-682,	59,00 €	145,00 €	225,00 €	115,00 €	195,00 €	390,00 €
DY-781, DY-782						
Fam	30,00 €	40,00 €	60,00 €	30,00 €	40,00 €	80,00 €
FITC	40,00 €	50,00 €	90,00 €	40,00 €	50,00 €	90,00 €
Hex	35,00 €	60,00 €	120,00 €	79,00 €	105,00 €	185,00 €
Joe	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Oregon Green 488, Oregon Green 514	70,00 €	145,00 €	225,00 €	115,00 €	195,00 €	390,00 €
Pacific Blue	70,00 €	145,00 €	225,00 €	115,00 €	195,00 €	390,00 €
Rhodamin 6G	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Rhodamin Green-X, Rhodamin Red	70,00 €	145,00 €	225,00 €	115,00 €	195,00 €	390,00 €
Rox	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Sima	35,00 €	60,00 €	120,00 €	–	–	–
Sunnyvale Red	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Tamra	40,00 €	75,00 €	120,00 €	59,00 €	105,00 €	185,00 €
Tet	35,00 €	60,00 €	120,00 €	–	–	–
Texas Red-X	70,00 €	145,00 €	225,00 €	115,00 €	195,00 €	390,00 €
Yakima Yellow	125,00 €	195,00 €	390,00 €	–	–	–

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,	79,00 €	105,00 €	185,00 €	59,00 €	105,00 €	185,00 €
BMN-Q590, BMN-Q620,						
BMN-Q650						
BBQ-650	–	–	–	starting at 79,00 €	starting at 125,00 €	starting at 225,00 €
BHQ-1	225,00 €	290,00 €	390,00 €	79,00 €	125,00 €	225,00 €
BHQ-2	225,00 €	290,00 €	390,00 €	79,00 €	125,00 €	225,00 €
Dabcyl	59,00 €	105,00 €	185,00 €	59,00 €	105,00 €	185,00 €
DDQ I	–	–	–	79,00 €	125,00 €	225,00 €
DDQ II	–	–	–	79,00 €	125,00 €	225,00 €
TQ2	–	–	–	79,00 €	125,00 €	225,00 €
TQ3	–	–	–	79,00 €	125,00 €	225,00 €

INTERNAL FLUORESCENT MODIFICATIONS | INTERNAL QUENCHERS **Part 1**

SYNTHESIS SCALE	S	M	L
Guaranteed yield ²	>2 OD	>5 OD	>15 OD
dT-Atto dye	230,00 €	310,00 €	435,00 €
dT-Cyanine 3, Cyanine 5, Cyanine 5.5	210,00 €	290,00 €	410,00 €
dT-DY dye	230,00 €	310,00 €	435,00 €
dT-Fam	105,00 €	125,00 €	185,00 €
dT-Hex	210,00 €	290,00 €	410,00 €
dT-Joe	210,00 €	290,00 €	410,00 €
dT-Rhodamin 6G	210,00 €	290,00 €	410,00 €
dT-Rhodamin Green	290,00 €	390,00 €	590,00 €
dT-Rox	210,00 €	290,00 €	410,00 €

SYNTHESIS SCALE ¹	S	M	L
Guaranteed yield ²	>2 OD	> 5 OD	> 15 OD
dT- Tamra	210,00 €	290,00 €	410,00 €
dR-DDQ I	59,00 €	105,00 €	185,00 €
dR-DDQ II	79,00 €	145,00 €	225,00 €
dT- BHQ-1, BHQ-2	490,00 €	on request	on request
dT- Dabcyl	282,00 €	282,00 €	320,00 €

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	95,00 €	240,00 €	400,00 €
Yakima Yellow, Joe, Texas Red, Atto Dyes, Dyomics Dyes	BMN-Q535, TQ2, TQ3, BHQ-1, BHQ-2, BBQ-650, Dabcyl	195,00 €	240,00 €	400,00 €

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	125,00 €	300,00 €	500,00 €
Yakima Yellow, Joe, Texas Red, Atto Dyes, Dyomics Dyes	BMN-Q535, TQ2, TQ3, BHQ-1, BHQ-2, BBQ-650, Dabcyl	235,00 €	340,00 €	590,00 €

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	290,00 €	390,00 €	520,00 €
Cyanine 3, Cyanine 5	int. BHQ-2	Spacer 18	290,00 €	390,00 €	520,00 €
6-Fam, Hex, Tet	int. Dabcyl	Spacer 18	270,00 €	370,00 €	500,00 €
Cyanine 3, Cyanine 5	int. Dabcyl	Spacer 18	270,00 €	370,00 €	500,00 €
Atto dye, DY dye	int. BHQ	Spacer 18	395,00 €	495,00 €	650,00 €

OLIGONUCLEOTIDE HRP CONJUGATE (HORSERADISH PEROXIDASE CONJUGATE)⁸

SYNTHESIS SCALE			S	M	L
Guaranteed yield ²			> 1 OD	> 2 OD	> 4 OD
Price per Conjugate			240,00 €	400,00 €	650,00 €

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			120,00 €	185,00 €	300,00 €

FOR OLIGOS IN TUBES

Concentration adjustment from 50 – 500 µM	per oligo	1,00 €
Additional aliquots	per aliquot	1,00 €

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

Concentration adjustment from 50 – 500 µM	per oligo	1,00 €
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



plus an additional 5 % Early Bird Discount¹⁰
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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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