

DNA Oligonucleotides

Standard Synthesis

DNA Oligos [Desalted]

Synthesis Scale	Price per Base	Synthesis Scale	Price per Base
Genomics	0.25	1.0 µmol	2.26
0.04 µmol	0.37	15 µmol	17.42
0.2 µmol	0.85	Larger scales	On request

Purification

Item	Price per Oligo	Item	Price per Oligo
HPLC 0.04/0.2 µmol	13.80	PAGE 1.0 µmol	90.32
HPLC 1.0 µmol	30.97	HPLC 0.2 µmol incl. dialysis	64.52
HPLC 15 µmol	212.90	HPLC 1.0 µmol incl. dialysis	96.77
PAGE 0.04/0.2 µmol	38.71	HPLC 15 µmol incl. dialysis	251.61

Optional Services [Aliquoting, Liquid Oligos, Certificate of Analysis etc.]

Item	Price per Oligo	Item	Price per Oligo
5 nmol Aliquots	25.81	Liquid Oligos (100 µM; tubes)	2.32
2 nmol Aliquots	25.81	Liquid Oligos (100 µM; plates)	0.61
Special Tube Label	0.25 ¹	High Fidelity Wobbles ²	51.61
Delivery in 2D Barcoded Storage Tubes	1.29	Certificate of Analysis - Type 1 (full version) ³	51.61

¹ Price per Tube. ² This is the fee for the manual preparation of one single precise wobble mixture. In case you need several wobbles, volume-dependent discounts are possible (please contact us to obtain a tailor-made offer). ³ Downgraded types (type 1 to 6) available on request.

Modifications involving the DNA Base and/or Sugar-phosphate Backbone

Item	0.04 µmol scale	0.2 µmol scale	1.0 µmol scale
2-Aminopurin	--	54.84	164.52
Biotin-dT	--	152.90	305.81
2'-Deoxyinosine (INO)	--	7.74	11.61
2'-Deoxyuridine (dU)	--	19.35	38.71
3'-Deoxy-A, C, G and T ²	--	96.77	127.74
2'-F modified base	--	25.81	38.71
5-Methyl-dC	--	11.61	16.13
Propynyl-dC (TM enhancing base)	--	54.84	109.68
Propynyl-dU (TM enhancing base)	--	54.84	109.68
LNA-A, C, G, T	46.61	54.84	109.68
Spacer C3	--	54.84	164.52
Spacer C12	--	54.84	164.52
Spacer C18 (HEG)	--	54.84	164.52
dSpacer (abasic site)	--	54.84	164.52

Other modifiers (Alkyne-dT, N6-Methyl-dA, 5-Brom-dU, 5-Hydroxymethyl-dC, Amino-dT, different spacers etc.) upon request

¹ Price includes only the corresponding modification whereas costs per base and a possible purification are not included. Please request an offer if you have a volume order (>10 modifications of same type per one single order). ² 3'-Deoxy-A or dA, dC, dG and dT is functional equivalent to 2'3' Dideoxy A/G/C/T.

Dark Quencher

Item	0.04 μmol scale	0.2 μmol scale	1.0 μmol scale
3' BHQ-1	65.81	65.81	214.19
3' BHQ-2	--	65.81	214.19
Internal Quencher 500	--	51.61	96.77
3' Dabcyl	--	65.81	214.19

Non-Fluorescent Modifications

Item	0.04 μmol scale	0.2 μmol scale	1.0 μmol scale
5' Amino (C6)	15.48	15.48	32.26
3' Amino (C6 or C7) ²	--	25.81	45.16
3' Alkyne (Click Chemistry)	--	75.81	227.42
5' Azide (Click Chemistry)	--	75.81	227.42
3' Azide (Click Chemistry)	--	75.81	227.42
5' Biotin (C6)	25.81	25.81	63.23
3' Biotin (TEG)	--	25.81	45.16
3' Cholesterol	--	154.84	309.68
5' Digoxigenin	--	92.26	338.06
3' Digoxigenin	--	95.48	349.68
Digoxigenin -dT	--	152.90	458.71
5' DBCO (Click Chemistry)	--	98.39	295.16
5' Hexynyl (Click Chemistry)	--	50.97	152.90
3' Inverted Thymidine	--	22.58	67.74
5' Phosphorylation	22.58	22.58	51.61
3' Phosphorylation	--	25.81	77.42
5' Thiol (C6)	--	63.22	175.48
3' Thiol (C3)	--	72.90	219.36

¹ Price includes only the corresponding modification whereas costs per base and a possible purification are not included. Please request an offer if you have a volume order (>10 modifications of same type per one single order). ² 3' Aminolink C7 is used for oligos >50 bases.

Fluorescent Modifications

Item	0.04 μmol scale	0.2 μmol scale	1.0 μmol scale
5' AlexaFluor 350/430	--	60.00	214.19
3' AlexaFluor 350/430	--	69.03	224.52
5' ATTO 425/488/532/550/565/590/620/647N	61.94	92.26	276.77
3' ATTO 425/488/532/550/590/565/620/647N	--	101.94	305.81
5' Cy3 and Cy5	34.19	44.52	121.29
5' Cy5.5	65.81	74.19	143.22
5' and 3' Cy7	115.48	172.26	378.71
3' Cy3 and Cy5	--	53.55	150.32
3' Cy5.5	--	83.23	233.55
5' Dyomics 510XL/530/630/681/781	56.77	87.10	261.29
3' Dyomics 510XL/530/630/681/781	--	96.77	290.32
5' FAM (Fluorescein), HEX, TET	30.97	34.19	66.45
3' FAM (Fluorescein)	--	32.26	96.77
5' JOE, TAMRA, ROX	--	56.77	192.26
3' JOE, TAMRA, ROX	--	65.81	214.19
ROX-dT	--	145.81	437.42
TAMRA-dT	--	118.06	354.19
5' Texas Red	--	92.26	276.77
5' Yakima Yellow	--	92.26	276.77

¹ Price per corresponding modification (costs per base and a possible purification are not included). Please request an offer if you have a volume order (>10 modifications of same type per one single order). Other 3'- or 5'-AlexaFluor-, ATTO- or Dyomics dyes are available (price on request).

Dual-labeled Fluorescent Probes¹ [Fixed Prices, no Additional Costs]

Item	0.04 μ mol scale	0.2 μ mol scale	1.0 μ mol scale
5' Alexa350 – 3' Dabcyl	--	177.42	590.32
5' Alexa350 – 3' BHQ-1	--	177.42	483.87
5' ATTO425 – 3' BHQ-1	--	177.42	590.32
5' ATTO488 – 3' BHQ-1	--	177.42	590.32
5' ATTO532 – 3' BHQ-1	--	177.42	590.32
5' ATTO550 – 3' BHQ-2	--	177.42	483.87
5' ATTO620 – 3' BHQ-2	--	177.42	590.32
5' ATTO647N – 3' BHQ-2	--	177.42	483.87
5' Cy3 – 3' BHQ-2	--	145.16	483.87
5' Cy5 – 3' BHQ-2	--	145.16	483.87
5' Cy5.5 – 3' BHQ-2	--	145.16	483.87
5' Dyomics681 – 3' BHQ-2	--	177.42	590.32
5' FAM – 3' BHQ-1	99.00	145.16	483.87
5' FAM – 3' TAMRA	99.00	145.16	483.87
5' FAM – 3' MGB-Q500	215.00	320.00	590.00
5' HEX – 3' BHQ-1	--	145.16	483.87
5' HEX – 3' TAMRA	--	145.16	483.87
5' JOE – 3' BHQ-1	--	145.16	483.87
5' ROX – 3' BHQ-2	--	145.16	483.87
5' TAMRA – 3' BHQ-2	--	145.16	483.87
5' TET – 3' BHQ-1	--	145.16	483.87
5' TET – 3' TAMRA	--	145.16	483.87
5' Texas Red – 3' BHQ2	--	177.42	483.87
5' Yakima Yellow – 3' TAMRA	--	177.42	483.87
5' Yakima Yellow – 3' BHQ-1	--	177.42	483.87
5' Yakima Yellow – 3' MGB-Q500	360.00	420.00	650.00
Affinity Enhancing Bases ²	--	See last table on page 1	

¹ Please ask for other 5' AlexaFluor-, ATTO- or Dyomics-Dyes. ² Affinity enhancing bases are alternatives to MGB probes.

Large Volume Orders

DNA Oligos — Large-Volume Orders¹ [Genomics and 0.04 μ mol Scale; Desalted; max. Length: 60 bases]

# DNA Bases	# of DNA Oligos ²	Production Time [weeks]	Price per Base
3'000 - 6'000	100 - 200	0.5	0.17
6'001 - 12'000	201 - 400	1	0.15
12'001 - 30'000	401 - 1'000	1 - 2	0.14
30'001 - 50'000	1'000 - 1'666	2	0.13
50'001 - 125'000	1'667 - 4'167	2 - 4	0.12
125'001 - 250'000	4'168 - 8'333	3 - 5	0.11
>250'000	>8'333	>5	0.11

¹ Volume order means $\geq 3'000$ bases or ≥ 100 oligos per one single order. ² Calculation applies to unmodified oligos with 30 DNA bases.

DNA Oligos Modified — Large-Volume Orders

Please get in contact with us and request your offer.

RNA Oligonucleotides

Standard Synthesis

RNA Synthesis [Single Strand RNA, Desalted]

Synthesis Scale	Price per Base	Synthesis Scale	Price per Base
Genomics (96-well plate)	On request	0.2 µmol	7.10
0.04 µmol	5.35	1.0 µmol	16.19
15 µmol	90.00		

siRNAs [Desalted; already Annealed]

Synthesis Scale	Item	Price per siRNA Duplex
Genomics (96-well plate)	siRNA Duplex (2x21mer)	On request
0.04 µmol	siRNA Duplex (2x21mer)	153.55
0.2 µmol	siRNA Duplex (2x21mer)	209.68
	4 nmol of Pre-synthesized Standard siRNA (positive & negative controls)	48.39
	Non-dTdT 3' overhang	6.45 (price per strand)
0.04 µmol	Longer siRNA Duplex 22-27bp	4.52 (price per additional base)
0.2 µmol	Longer siRNA Duplex 22-27bp	5.81 (price per additional base)

Price for 5', 3' Fluorescent, Non-fluorescent, Internal Modifications as well as for Purifications

Please see page 1 to 3. Prices are the same as for DNA oligonucleotides.

Large Volume Orders

RNA Oligos — Large-Volume Orders¹ [Genomics and 0.04 µmol Scale; Desalted]

# RNA Bases	# of RNA Oligos ²	Production Time [weeks]	Price per Base
500 - 1'250	20 - 50	~1	4.17
1'251 - 2'500	51 - 100	1 - 2	3.17
2'501 - 3'750	101 - 150	1 - 2	2.16
3'751 - 5'000	151 - 200	1 - 2	1.15
5'001 - 7'500	201 - 300	~2	1.09
7'501 - 12'500	301 - 500	2 - 3	1.05
>12'500	>500	On request	1.00

¹ Volume order means ≥500 bases or ≥20 oligos per one single order. ² Calculation applies to RNA oligos with 25 RNA bases

siRNAs — Large-Volume Orders¹ [Genomics and 0.04 µmol Scale; Desalted; already Annealed]

# siRNAs	Production Time [weeks]	Price per siRNA Duplex
12 - 30	~1	118.00
31 - 60	1 - 2	78.00
61 - 100	1 - 2	60.00
101 - 200	~2	56.00
201 - 300	~2	52.00
>300	On request	49.00

¹ Volume order means ≥12 siRNAs per one single order.

Important – Please Note!

To benefit from large volume discounts, please contact us and request your offer.

Special Synthesis

DNA Oligos for NGS Applications

Number of NGS Oligos	Price per Base	Guaranteed Yield after HPLC	Price per HPLC Purification	Production time incl. HPLC [wd]
1-12	0.85	3 OD	13.80	2-3
13-24	0.54		12.45	
24-48	0.38		11.40	
49-96	0.34		9.00	3-4
97-192	0.32		6.20	4-6
>192	0.32		6.20	on request

Please get in contact with us and request your offer.

Antisense Oligonucleotides

Item	Price per Base	Item	Price per Base
Phosphorothioate 0.04/0.2 µmol	2.39*	2'-O-methyl-RNA 15 µmol	41.94
Phosphorothioate 1.0 µmol	3.16*	2'-MOE-RNA 0.04 µmol	14.00
Phosphorothioate 15.0 µmol	6.58*	2'-MOE-RNA 0.2 µmol	25.81
2'-O-methyl-RNA 0.04 µmol	7.10	2'-MOE-RNA 1.0 µmol	38.71
2'-O-methyl-RNA 0.2 µmol	8.39	2'-MOE-RNA 15.0 µmol	89.03
2'-O-methyl-RNA 1.0 µmol	16.13		

* Prices marked by "*" do not include normal base prices (Price for Cat.No. 0050, 0100, 0102, 0103 has to be added).

Optimized cr and tracrRNA

Item	Price per Base	Item	Price per Base
2 nmol tracrRNA	70.00	2 nmol crRNA	100.00
5 nmol tracrRNA	110.00	5 nmol crRNA	110.00
20 nmol tracrRNA	260.00	20 nmol crRNA	160.00
100 nmol tracrRNA	630.00		

Sanger DNA Sequencing

Single Tube Services

Barcode Economy Run¹

Item	Price per Reaction	Total Price
Barcode Economy Run (≥50 prepaid labels)	5.90	295.00 (50 labels)
Barcode Economy Run (≥250 prepaid labels)	5.60	1'400.00 (250 labels)
Barcode Economy Run (≥500 prepaid labels)	5.00	2'500.00 (500 labels)
Barcode Economy Run (≥1'000 prepaid labels)	On request	
Single PCR Purification for Barcode Economy Run	2.90	
Advanced Treatment Sequencing	2.00	

¹ Only multiples of 50 prepaid labels can be ordered.

Economy Run¹

Item	Price per Reaction
Economy Run	11.61
Single PCR Purification for Economy Run	5.81
Advanced Treatment Sequencing	2.00

¹ Sample sticker can be requested in the web shop.

Premium Run

Item	Price per Reaction
Premium Run	18.06
Set up (in case of poor DNA or primer)	9.03
Editing of Premium Run Reactions (visual inspection)	3.23
Special Treatment – Stage 1 (for difficult-to-sequence samples)	7.74
Special Treatment – Stage 2 (for very difficult-to-sequence samples)	16.13
One-Drop Sequencing	7.74
Single Plasmid Preparation from <i>E. coli</i> for sequencing	5.81

Plate Services

Barcode High-Throughput Run [Plasmid Isolation from *E. coli* or PCR Purification Included]

Item	Price per Reaction ¹	Price per Plate
Barcode High-Throughput Run (<5 pre-paid 96-well plates)	3.40	326.40
Barcode High-Throughput Run (≥5 pre-paid 96-well plates)	3.20	307.20
Barcode High-Throughput Run (≥10 pre-paid 96-well plates)	3.00	288.00
Barcode High-Throughput Run (≥ 20 pre-paid 96-well plates)	On request	

¹ Provided that all 96 wells are filled. Price per plate is charged, even if the plate is only partially filled. Up to 12 different specific primers can be added.

Barcode High-Throughput Seq Only [Isolation and Purification Excluded]

Item	Price per Reaction ¹	Price per Plate
Barcode High-Throughput Seq Only (<5 pre-paid 96-well plates)	3.00	288.00
Barcode High-Throughput Seq Only (≥5 pre-paid 96-well plates)	2.90	278.40
Barcode High-Throughput Seq Only (≥10 pre-paid 96-well plates)	2.80	268.80
Barcode High-Throughput Seq Only (≥ 20 pre-paid 96-well plates)	On request	

¹ Provided that all 96 wells are filled. Price per plate is charged, even if the plate is only partially filled. Up to 12 different specific primers can be added.

High-Throughput Run¹

Item	Price per Reaction
49-96 Samples per Plate	3.91
25-48 Samples per Plate	4.50

¹ Samples are purified plasmids or PCR products; up to 12 different specific primers can be added.

Please contact us and request your offer for volume orders. Prices down to EUR 3.00 per reaction are possible.

Complementary Services for our High-Throughput Run

Item	Price
Plasmid Isolation from <i>E. coli</i> or PCR Purification	Price per Purification
49-96 Purifications per Plate	1.29
25-48 Purifications per Plate	1.48
Titration and Plating Libraries on Agar Plates (130-170 clones per plate)	Price per Library
1 or 2 Libraries per Order (max. 4 plates per library)	250.00
Colony Picking from Agar Plates, Arraying into 96-well LB-Growth Media Plates	0.70 / Clone
Return Delivery of Plasmids (price per plate)	10.00

Ready-to-Load Run¹

Item	Price per Reaction
49-96 Ready-to-load Samples per Plate	1.50
25-48 Ready-to-load Samples per Plate	2.25

¹ Samples delivered dissolved in formamide or water.

Ready-to-Load Run — Large-Volume Orders

Please contact us and request your offer for volume orders. Prices down to EUR 1.30 per reaction are possible.

Advanced Services

Primer Walking [DNA Purification and Primer Design & Synthesis Included]

Item	Price per Base
Primer Walking (non-assembled, one strand)	0.10
Primer Walking (non-assembled, both strands)	0.19
Primer Walking (assembled, one strand)	0.12
Primer Walking (assembled, both strands, publication quality, >99.99%) ¹	0.22

¹ Mutation report included if a reference sequence is available.

GMP Sequencing¹

Item	Price per Base
GMP-compliant 2-fold Sequencing	0.29
GMP-compliant 4-fold Sequencing	0.48
Item	Price per Report
GMP Reporting	900.00

¹ Our Sanger sequencing process is certified by Swissmedic for GMP compliance. The GMP sequencing services can only be ordered with GMP reporting.

Additional Services

Item	Price
Single PCR Purification (price per sample)	5.81
Sequencing Primer	4.50
Primer Design including Synthesis	16.13
Single BAC, Fosmid, Cosmid Preparation from <i>E. coli</i> (0.2 – 2 µg; price per clone)	129.03
Sequencing of BAC, genomic DNA, Cosmid, PAC, Fosmid (price per reaction)	30.97
Plasmid Isolation from <i>E. coli</i> at yields of 20 – 100 µg per clone	90.00

Next Generation Sequencing

Microsynth has many years' experience (>20 years) in DNA sequencing. The access as well as the smart interplay of current state-of-the art sequencing technologies on the market (Illumina MiSeq and NextSeq, PacBio) along with advanced bioinformatics tools/services put us into a position to basically cover all common sequencing applications. In the following you will find a selection of our most popular services.

Genome Sequencing and Bioinformatics Services

Item	Price
De novo and Resequencing of Plasmids and BACs	On request
De novo and Resequencing of Bacterial and Fungal Genomes	On request
Resequencing of Higher Eukaryotic Genomes	On request
De Novo Sequencing	On request
Shotgun Metagenomics	On request
MLST Analysis	On request

Transcriptome Sequencing and Bioinformatics Services

Item	Price
Differential Gene Expression Analysis	On request
Reference Transcriptome Generation	On request
Small RNA Analysis	On request
Shotgun Metatranscriptomics	On request

Targeted Sequencing and Bioinformatics Services

Item	Price
16S rDNA Analysis	On request
Amplicon Deep Sequencing	On request
ITS Analysis	On request
CRISPR/Cas9 Sequencing	On request
ChIP Sequencing	On request
Custom Marker System Analysis	On request
Whole Exome Sequencing	On request

Complementary Services

Item	Price
Customized Amplicon Sequencing	On request
Library Service	On request
Ready-to-load Sequencing	On request
Bioinformatics only	On request

Interested in outsourcing your sequencing project to Microsynth? Then do not hesitate to contact us and to request your individual quote.

Conditions

Microsynth's products are sold for research and laboratory use only and are not to be administered to humans or used for medical diagnostics. Prices exclude VAT and shipping costs and are subject to change without prior notice.