

PRICE LIST Oligo-Synthesis

DNA-STANDARD-SYNTHESIS				
STANDARD QUALITY (HPLC ¹)			PAGE-Purification	
Scale (µmol)	Yield (OD260) ²	Price/Base ³	Yield (OD260) ²	Price/Oligo
0,01 ⁴	2	0,40		n.a.
0,05	4	0,50	2	22,-
0,20	10	0,90	6	22,-
1,00	45	2,-	20	44,-
5,00	160	7,-		
10,00	320	17,-		
15,00	550	23,-		

¹ HPLC is included

² Guaranteed yields apply to a 20mer (+/- 10 %). For oligos >30 bases we cannot give a yield guarantee.

³ Prices are valid for oligos <80 bases.

³ For longer oligos >=80 bases we have to calculate the double price (PAGE purification is recommended).

⁴ 0,01 µmol scale for max. 30mer

WOBBLES

➤ No extra charge; except 3' Wobbles: **EURO 5,80; smallest scale available: 0,05 µmol**

DELIVERY TIME

➤ Standard Quality (HPLC): 36 h for synthesis + delivery.
 ➤ PAGE Quality or Modifications: 72 h for synthesis + delivery.

DELIVERY COSTS

Standard Delivery: € 5,80 for orders below € 75,-
 for orders more than € 75,-: no extra charges

Express Delivery (within 24 hours): AUSTRIA: € 15,-
 Countries of the EU: € 25,-
 Rest of Europe: € 30,-
 Rest of the World: € 60,-

Prices are given in EURO and are subject to change without prior notice; Prices do not include taxes.

COUPLINGS-EFFICIENCY – RECOMMENDATIONS FOR PURIFICATION

The main problem of oligosynthesis is the phosphoramidite-chemistry. Analogue to other organic-chemical reactions, it is not possible to reach a 100 % efficiency. Although, VBC-Biotech is using high-purified fine chemicals, which guarantees 98,5 to 99,5 % coupling efficiency, the yield of a full-length oligonucleotide decreases dramatically with the length of the oligo.

Oligo(-mer)	Product (%)	Failure sequences (%)
10	87	13
15	81	19
20	75	25
25	70	30
30	65	35
35	59	41
50	48	52
75	33	67
100	22	78

Guaranteed coupling-efficiency

As a consequence, the minimal guaranteed full-length product for a standard 25-mer is 70 %.

Therefore, VBC-Biotech generally purifies all standard-oligonucleotides with HPLC, and almost all modified oligos with PAGE.

Additionally, VBC-Biotech recommends the following purifications for oligos used for different applications.

Application	Standard (HPLC)	PAGE
Sequencing	YES	
RT-PCR	YES	
RNA Oligos		YES
Probing	YES	
PCR	YES	
Oligos > 35-mer		YES
Mutagenesis		YES
Modified Oligos		YES
Ligation		YES
Cloning		YES
In Situ Hybridization		YES
Genesynthesis		YES
Chip Technology		YES
Antisense Experiments		YES
Annealing		YES