

- Free Bio-RP purification
- Near HPLC purity
- 100% guaranteed performance for your application, or we'll make it again

Bioneer, founded in 1992, is one of the world's leading suppliers of synthetic oligonucleotides (DNA and RNA). In-house production of raw materials (phosphoramidites, reagents&solvents) along with automated synthesis and purification systems result in superior quality oligo at great price. Since Bioneer manufactures all the components of our oligo, we manage the quality control every step of the way-ensuring that you receive only the highest quality product. Every Bioneer oligo is purified free of charge utilizing our unique Bio-RP cartridge purification technology (a \$15 value).

Bio-RP removes many impurities and synthesis failure products that are still present in an oligo after desalting*. These impurities contribute to the OD measurement of competitor that are merely desalted-and artificially inflate their yield(see below). The end result of Bioneer's Bio-RP cartridge purification is near HPLC quality purification with only full-length product. We are so confident in our oligo that we are only company to offer a 100% quarantee that they will work for your PCR or qPCR application!

With high throughput oligo synthesis facilities around the world, Bioneer's daily capacity is unsurpassed. Bioneer is unrivalled in its ability to address the needs of customers requiring a few oligos on a regular basis and those customers that require very large numbers of oligos on a less frequent basis. We respond to your needs-personally.

Did you know?

Oligo desalting vs Bio-RP™Purification:

Most oligos sold are merely deprotected/desalted. The process of deprotection/desalting only partially purifies the oligo and leaves behind many impurities* and failure products (truncated oligos that will not amplify, and can even interfere with certain applications). These can lead to artificially inflated OD readings that increase with oligo length. Bio-RP purification removes all these contaminants and failure products, resulting in an oligo that is near HPLC purity. The advantage to you is that our product contains only quality oligo without impurities that can inhibit some PCR reactions, and potentially skew qPCR reactions. We have the same amount of active oligo as our competitors; they just have more "other" inflating their OD. To demonstrate this, plates of Oligos of various sizes were tested for concentration in 2 steps: 1) After a deprotection/desalting step only, and 2) after Bio-RP purification. (Fig. 1)

The results of these tests show that the amount of failed sequences and impurities* increase with length(as expected), but are not removed by deprotection/desalting alone. This results in inflated OD reading for oligos depending on oligo size. (Table 1)

*Impurities in desalted oligos may include: Acetonitrile, pyridine, iodine, ethylthiotetrazole, dichloromethane, acetic acid, acrylonitrile, benzamide and isobutyramide.

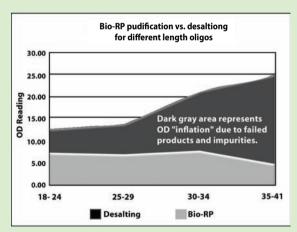


Fig 1. Plates of Oligos of various lengths were tested for concentration after desalting and then by Bio-RP cartridge purification. Note inflated OD readings when deprotection/desalting alone is used.

Oligo Size	18 - 24	24 - 29	30 - 34	35 - 41
OD Inflation	38%	45%	60%	77%

Table 1. Average OD inflation seen for oligos of various sizes when protection/desalting alone is employed.

Note for longer oligos, up to 77% of product does not consist of functional oligo.



What we offer-personal service! • • •

Based on volume, modification and scale, Bioneer oligos can be classified as follows:

Standard Custom

Based on volume, modification and scale, Bioneer oligos can be classified as follows:

Modified for qPCR and Other Applications

Most common modifications are available and can be ordered in tubes or plates.

Purified

All oligos are Bio-RP purified free-of-charge; HPLC and PAGE purification is also available.

Extendamers[™] (Long oligomers)

Oligos up to 200 mers can be synthesized with Bio-RP or PAGE purification.

Large Scale(Bulk)

Milligram to tens of grams of oligos, including standard, modified and purified.

High Throughput

Very large numbers of oligos supplied in 96-or 384-well plate format.

Stock/Pre-made Primers

Stock primers pre-made, PAGE purified and available off-the-shelf from Bioneer.

Tell us what you need

Bioneer's production can accommodate orders ranging from milligrams to tens of grams of the purest DNA and RNA, including both standard and modified. Our lists if synthesis services are below, but if you need something else, please ask us!

Synthesis Services		
Туре	Scale	Base Limition
Custom/Standard	25 nmole 50 nmole 200 nmole 1 umole 10 umole 15 umole	25 nmole: 15-60 mer 50 nmole: 10-75 mer 200 nmole: 5-110 mer
High Throughput	25 nmole 50 nmole 200 nmole 1 umole 10 umole 15 umole	1 umole: 5-130 mer 10 umole: 5-50 mer 15 umole: 5-50 mer

So many Modifications...



All common Oligo modifications are available including those in the table. Our fluorogenic oligonucleotides for qPCR, are unsurpassed in quality, and priced for value. In addition to the modifications listed in our ordering information tab, we may be able to accommodate custom oilgo modifications to fit your needs. Please contact oligo-support@bioneer.com for more information.

Available Modifications*		
Antisense		
Chimeric RNA Bases	Chimeric RNA Bases (HPLC purified)	2'-O-Me-RNA Bases

What we offer - Purity above and beyond!



Purification options

All oligos synthesized by Bioneer are purified using the Bio-RP purification system. This service is available free of charge on all oligos. We also offer HPLC purification and PAGE purification.

Features of Purification options

Bio-RP-Free-of-charge on all scales:

- Better than ethanol precipitation or Sephadex G-25 column chromatography.
- Bio-RP not only desalts, but also removes virtually all of the failed products of synthesis.
- Near HPLC quality.

HPLC(High Performance Liquid Chromatography) available on all scales, except 25 nmole

- For applications such as cloning, site-directed mutagenesis, or qPCR.
- RP-HPLC purification for added purity.
- >90% purification effciency(range varies according to the length of oligos).

PAGE (Polyacrylamide Gel Electrophoresis) Available on all scales, except 25 nmole

- Recommended purification method for long oligos, up to 200 mer.
- >95% purification efficiency.
- Ultra-pure oligo, but lower yields than OPC and HPLC.

What we deliver - Value! • • •



Free MALDI-TOF Quality Control

Bioneer is one of the few oligo producers that checks all oligonucleotides (single or high throughput orders) by MALDI-TOF and provides mass data with each oligo - free of charge. Oligos greater than 50 bases are also quality checked by gel electrophoresis.

Bioneer's Oligo Synthesis Report accompanies each oligo order. The contents of the Data Sheet include: Oligo Name, OD, total nmole, scale, length, purification, modification(s), GC content, molecular weight, and volume for 100 µM solution.

Shipping Information and Turnaround Time

We know that time is of the essence and we always do our best to please. In our production process, quality is our first priority, followed very closely by time. We ship as soon as we are able and have 24 hour production.

Turnaround Time	
Service	Description of Service
Standard, non-modified, Bio-RP	Order by 5:00 PM PST (8:00 PM EST) any week day. Oligos are shipped lyophilized within 1 working days or sooner.
Standard, non-modified, HPLC	Order by 5:00 PM PST (8:00 PM EST) any week day. Oligos are shipped lyophilized within 3 working days or sooner.
Standard, non-modified, PAGE	Order by 5:00 PM PST (8:00 PM EST) any week day. Oligos are shipped lyophilized within 3 working days or sooner.
Standard, modified, Bio-RP	Order by 5:00 PM PST (8:00 PM EST) any week day. Oligos are shipped lyophilized within 2 working days or sooner.
Standard, modified, HPLC	Order by 5:00 PM PST (8:00 PM EST) any week day. Oligos are shipped lyophilized within 3 working days or sooner.
Standard, modified, PAGE	Order by 5:00 PM PST (8:00 PM EST) any week day. Oligos are shipped lyophilized within 3 working days or sooner.
High throughput, large scale	Please contact Customer Care for turnaround time.

Extendamers, Synthesis and Purification

Product Description	DNA Extendamer, BIO-RP	DNA Extendamer, PAGE	
Cat. No.	S-2044	S-2045	
Length Range	130 - 200 bases	130 - 200 bases	
Guaranteed Yield	3-4 nmole	0.25 - 0.3 nmole	
Turnaround Time	5 - 6 days	7 - 8 days	
Base Price	\$ 0.95	\$ 0.95	
Purification Price US\$	Free	\$75.00	

Modifications

Product Description	5' Phosphate	5' Biotin	5' Amine	5' Fluorescein	5'TAMRA	Inosine
Price US\$	\$ 25.00	\$ 48.00	\$ 25.00	\$ 67.00	\$150.00	\$ 8.00

For additional modifications or pricing on modified oligos in plates, please email oligo-support@bioneer.com.

Ordering Information

Cat. No.	Synthesis Scale	Base Limitation	Base Price	Bio-RP	PAGE	HPLC
Tube form	at					
S-1001	25 nmole	15-60 mer	\$ 0.29	Free	-	-
S-1010	50 nmole	10-75 mer	\$ 0.47	Free	\$ 40.00	\$ 40.00
S-1011	200 nmole	5-110 mer	\$ 0.92	Free	\$ 59.00	\$ 59.00
S-1012	1 umole	5-130 mer	\$ 1.75	Free	\$ 100.00	\$ 100.00
S-1013	10 umole	5-50 mer	\$ 14.00	Free	\$ 280.00	\$ 280.00
S-1014	15 umole	5-50 mer	\$ 22.00	Free	\$ 420.00	\$ 420.00
Plate form	at					
H-1001	25 nmole	15-60 mer	\$ 0.17	Free	-	-
H-1010	50 nmole	10-75 mer	\$ 0.21	Free	\$ 25.00	\$ 20.00
H-1011	200 nmole	5-110 mer	\$ 0.39	Free	\$ 30.00	\$ 25.00
H-1012	1 umole	5-130 mer	\$ 0.94	Free	\$ 50.00	\$ 50.00
H-1013	10 umole	5-50 mer	\$ 7.00	Free	-	-
H-1014	15 umole	5-50 mer	\$ 11.00	Free	-	-

Modifications					
Modification				esis Scale	
mounication	50 nmole (\$)	200 nmole (\$)	1 umole (\$)	10 umole (\$)	
3'-Modification					
DIG	82.50	92.50	142.50	712.50	
C6 Amine	15.00	30.00	47.00	235.00	
Phosphate	22.00	30.00	45.00	240.00	
Biotin	54.00	60.00	100.00	520.00	
C3 spacer	36.00	45.00	66.00	280.00	
C6 spacer	36.00	45.00	66.00	280.00	
C12 spacer	36.00	45.00	66.00	280.00	
C18 atom spacer	45.00	55.00	80.00	325.00	
dS spacer	47.00	55.00	80.00	320.00	
FAM	50.00	60.00	110.00	670.00	
TAMRA	77.00	96.00	137.00	750.00	
Thiol	70.00	90.00	130.00	690.00	
Texas Red	165.00	185.00	285.00	1,425.00	
JOE	165.00	185.00	285.00	1,425.00	
ROX	1140.00	150.00	250.00	11,250.00	
Cy5	95.00	115.00	175.00	1,050.00	
Cy5.5	180.00	250.00	380.00	1,050.00	
СуЗ	95.00	115.00	175.00	1,050.00	
Cy3.5	180.00	250.00	380.00	1,050.00	
Dabcyl	80.00	100.00	200.00	1,050.00	
BHQ1	80.00	100.00	200.00	1,050.00	
BHQ2	80.00	100.00	200.00	1,050.00	
Cholesteryl	80.00	100.00	240.00	1,200.00	
3'-Inverted dT	38.00	50.00	80.00	380.00	
3'-Inverted dA	38.00	50.00	80.00	380.00	
3'-Inverted dC	38.00	50.00	80.00	380.00	
3'-Inverted dG	38.00	50.00	80.00	380.00	
Ara-dC	80.00	100.00	310.00	Less than 3 (Set-up Charge: \$200.00)	
5-F-dU	90.00	110.00	350.00	Less than 3 (Set-up Charge: \$250.00)	
2',3'-ddC	80.00	100.00	310.00	Less than 3 (Set-up Charge: \$200.00)	
AlexaFluor 488	180.00	200.00	350.00	1,750.00	
AlexaFluor 532	250.00	275.00	430.00	2,150.00	
AlexaFluor 546	250.00	275.00	430.00	2,150.00	
AlexaFluor 594	288.00	325.00	520.00	2,600.00	
AlexaFluor 647	180.00	200.00	350.00	1,750.00	
AlexaFluor 660	288.00	325.00	520.00	2,600.00	
AlexaFluor 750	288.00	325.00	520.00	2,600.00	
N6-methyl-2'-deoxyadenosine	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$150.00)	
DNP (2,4-dinitrophenyl)-TEG	125.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00)	
Puromycine	80.00	100.00	200.00	1,050.00	
Yakima Yellow	120.00	150.00	220.00	Inquire	
3'-dA	250.00	275.00	350.00	Inquire	
3'-dC	250.00	275.00	350.00	Inquire	
3'-dG	250.00	275.00	350.00	Inquire	
3'-dT	250.00	275.00	350.00	Inquire	
5-Nitroindole	125.00	175.00	250.00	450.00	
		1			

			Synth	esis Scale
Modification	50 nmole (\$)	200 nmole (\$)	1 umole (\$)	10 umole (\$)
3'-Modification	(47	(47	(47	W/
2'-F-rA	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
2'-F-rC	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
2'-F-rG	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
2'-F-rU	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
Maleimide	50.00	65.00	95.00	Less than 3 (Set-up Charge: \$150.00
2-Aminopurine	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00
2,6-Diaminopurine	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00
Dithiol	150.00	175.00	275.00	1,500.00
EDTA-C2-dT	120.00	150.00	275.00	Less than 3 (Set-up Charge: \$250.00
Thymidine Glycol	150.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00
Zebularine	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
Methylene Blue	150.00	175.00	275.00	Less than 3 (Set-up Charge: \$250.00
AMCA (amino-methyl -coumarin-acetate)	125.00	175.00	275.00	Less than 3 (Set-up Charge: \$175.00
Deoxypurine (2'-DeoxyNebu larine)	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$250.00
PEG-2000	inquire	inquire	inquire	inquire
Azide	150.00	175.00	275.00	1,500.00
Acrylamide (acrydite)	90.00	110.00	350.00	1,500.00
O6-Methyl 2'-dG	75.00	90.00	125.00	375.00
O4-Methyl-dT	75.00	90.00	125.00	375.00
dT-Alkyne	225.00	250.00	350.00	1,750.00
Rhodamine 6G	180.00	250.00	380.00	1,050.00
Epoch Eclips Quencher	225.00	250.00	350.00	1,750.00
EBQ	112.00	135.00	350.00	594.00
Pyrene-dU	150.00	175.00	275.00	650.00
Perylene-dU	150.00	175.00	275.00	650.00
C8-Alkyne-dT	150.00	175.00	275.00	650.00
C8-Alkyne-dC	150.00	175.00	275.00	650.00
Desthiobiotin TEG	150.00	175.00	275.00	750.00
N3-Methyl dC	150.00	175.00	275.00	650.00
N4-Ethyl dC	150.00	175.00	275.00	650.00
Marina blue	125.00	175.00	250.00	1,250.00
Azobenzene	125.00	175.00	250.00	1,250.00

Modification			Synth	
Modification	1		Sylidi	esis Scale
	50 nmole (\$)	200 nmole (\$)	1 umole (\$)	10 umole (\$)
5'-Modification				
DIG	82.50	92.50	142.50	712.50
C6 Amine	10.00	25.00	40.00	190.00
Phosphate	10.00	25.00	40.00	180.00
Biotin	38.00	48.00	95.00	380.00
Thiol	70.00	90.00	130.00	690.00
C3 spacer	30.00	40.00	65.00	280.00
C6 spacer	30.00	40.00	65.00	280.00
C12 spacer	30.00	40.00	65.00	280.00
18 atom spacer	47.00	55.00	80.00	320.00
dS spacer	47.00	55.00	80.00	320.00
FAM	56.00	67.00	142.00	565.00
TAMRA	140.00	150.00	250.00	975.00
HEX	55.00	66.00	138.00	600.00
TET	55.00	66.00	138.00	600.00
Texas Red	165.00	185.00	285.00	1,425.00
JOE	165.00	185.00	285.00	1,425.00
ROX	140.00	150.00	250.00	1,250.00
Cy5	80.00	100.00	200.00	1,050.00
СуЗ	80.00	100.00	200.00	1,050.00
IRD700	80.00	100.00	200.00	1,050.00
IRD800	80.00	100.00	200.00	1,050.00
C2 Aldehyde	145.00	155.00	240.00	750.00
Cy5.5	80.00	100.00	200.00	1,050.00
Cholesteryl	80.00	100.00	240.00	1,200.00
Dabcyl	145.00	175.00	240.00	1,200.00
Ara-dC	80.00	100.00	310.00	Less than 3 (Set-up Charge: \$200.00)
5-F-dU	90.00	110.00	350.00	Less than 3 (Set-up Charge: \$250.00)
2',3'-ddA	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)
2',3'-ddC	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)
2',3'-ddG	110.00	135.00	330.00	Less than 3 (Set-up Charge: \$250.00)
2',3'-ddT	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)
AlexaFluor 488	180.00	200.00	350.00	1,750.00
AlexaFluor 532	250.00	275.00	430.00	2,150.00
AlexaFluor 546	250.00	275.00	430.00	2,150.00
AlexaFluor 594	288.00	325.00	520.00	2,600.00
AlexaFluor 647	180.00	200.00	350.00	1,750.00
AlexaFluor 660	288.00	325.00	520.00	2,600.00
AlexaFluor 750	288.00	325.00	520.00	2,600.00
N6-methyl-2'-deoxyadenosine	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$150.00)
PC (photo-cleavable) Amine Linker	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$150.00)
PC (photo-cleavable) Biotin Linker	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$150.00)

DND /2.4 dinitronham // TEC	125.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00)
DNP (2,4-dinitrophenyl)-TEG	125.00	250.00	380.00	1,050.00
Cy3.5	180.00	275.00	350.00	Inquire
3'-dA	250.00			·
3'-dC	250.00	275.00	350.00	Inquire
3'-dG	250.00	275.00	350.00	Inquire
3'-dT	250.00	275.00	350.00	Inquire
5-Nitroindole	125.00	175.00	250.00	450.00
2'-F-rA	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)
2'-F-rC	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)
2'-F-rG	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
2'-F-rU	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
Maleimide	50.00	65.00	95.00	350.00
2-Aminopurine	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00
2,6-Diaminopurine	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00
Dithiol	150.00	175.00	275.00	1,500.00
BHQ2	180.00	220.00	330.00	900.00
EDTA-C2-dT	120.00	150.00	275.00	Less than 3 (Set-up Charge: \$250.00
Thymidine Glycol	150.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00
Zebularine	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00
Methylene Blue	150.00	175.00	275.00	Less than 3 (Set-up Charge: \$250.00
AMCA (amino-methyl -coumarin-acetate)	125.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00
Deoxypurine (2'-DeoxyNebu larine)	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00
PEG-2000	inquire	inquire	inquire	inquire
5' -BromoHexyl (Br)	150.00	175.00	275.00	1,500.00
Acridine	125.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00
Acrylamide (acrydite)	90.00	110.00	350.00	1,250.00
Yakima Yellow	250.00	275.00	350.00	Less than 3 (Set-up Charge: \$150.00
O6-Methyl 2'-dG	75.00	90.00	125.00	375.00
O4-Methyl-dT	75.00	90.00	125.00	375.00
C3-Amine	50.00	60.00	80.00	240.00
C12-Amine	75.00	90.00	125.00	375.00
dT-Alkyne	225.00	250.00	350.00	1,750.00
Rhodamine 6G	180.00	250.00	380.00	1,050.00
Pyrene-Cap	225.00	250.00	350.00	1,750.00
Epoch Eclips Quencher	225.00	250.00	350.00	1,750.00
5'-Hexynyl	50.00	60.00	80.00	240.00
Pyrene-dU	150.00	175.00	275.00	650.00
Perylene-dU	150.00	175.00	275.00	650.00
C8-Alkyne-dT	150.00	175.00	275.00	650.00
C8-Alkyne-dC	150.00	175.00	275.00	650.00
AminoOxy	125.00	150.00	220.00	550.00
Desthiobiotin TEG	150.00	175.00	275.00	750.00
N3-Methyl dC	150.00	175.00	275.00	650.00
N4-Ethyl dC	150.00	175.00	275.00	650.00
5'-OMe-dT	75.00	95.00	150.00	375.00
		250.00	350.00	1,750.00
C6-Psoralen	225.00			1,250.00
Marina blue	125.00	175.00	250.00	
DBCOTEG	180.00	220.00	330.00	900.00
Azobenzene	125.00	175.00	250.00	1,250.00

Modifications					
Modification				esis Scale	
Modification	50 nmole (\$)	200 nmole (\$)	1 umole (\$)	10 umole (\$)	
Internal Modification	ı			T	
Amino Modifier C6 dT	108.00	135.00	210.00	840.00	
Biotin-dT	145.00	155.00	240.00	1,200.00	
Fluorescein dT	145.00	175.00	240.00	1,200.00	
C3 spacer	35.00	45.00	63.00	290.00	
C6 spacer	35.00	45.00	63.00	290.00	
C12 spacer	35.00	45.00	63.00	290.00	
18 atom spacer	45.00	50.00	80.00	320.00	
dS spacer	47.00	50.00	80.00	320.00	
Phosphorothioate (per insertion)	-	3.00	4.00	20.00	
5-Methyl dC	47.00	55.00	80.00	320.00	
Inosine	7.00	8.00	15.00	60.00	
Deoxy Uridine	7.00	7.50	11.00	55.00	
2'-O-Methyl	6.00	7.00	14.00	55.00	
5-Bromo dU	70.00	90.00	130.00	600.00	
8-Oxo-dA	145.00	175.00	240.00	1,200.00	
8-Oxo-dG	145.00	175.00	240.00	1,200.00	
Ferrocene-dT	145.00	155.00	240.00	1,200.00	
5-hydroxymethyl-dC	145.00	175.00	240.00	1,200.00	
5-Hydroxy-dU	145.00	175.00	240.00	1,200.00	
5-hydroxymethyl-dU	145.00	175.00	240.00	1,200.00	
Ara-dC	80.00	100.00	310.00	Less than 3 (Set-up Charge: \$200.00)	
5-F-dU	90.00	110.00	350.00	Less than 3 (Set-up Charge: \$250.00)	
N6-methyl-2'-deoxyadenosine	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$150.00)	
PC (photo-cleavable)Linker	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$250.00)	
DNP (2,4-dinitrophenyl)-TEG	125.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00)	
Су3	160.00	200.00	350.00	1,050.00	
Cy5	160.00	200.00	350.00	1,050.00	
Cy3.5	180.00	250.00	380.00	1,050.00	
Cy5.5	180.00	250.00	380.00	1,050.00	
Puromycine	80.00	100.00	200.00	Less than 3 (Set-up Charge: \$150.00)	
Yakima Yellow	120.00	150.00	220.00	Less than 3 (Set-up Charge: \$150.00)	
3'-dA	250.00	275.00	350.00	Inquire	
3'-dC	250.00	275.00	350.00	Inquire	
3'-dG	250.00	275.00	350.00	Inquire	
3'-dT	250.00	275.00	350.00	Inquire	
5'-Nitroindole	125.00	175.00	250.00	450.00	
2'-F-rA	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)	
2'-F-rC	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)	
2'-F-rG	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)	
2'-F-rU	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)	
2-Aminopurine	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00)	
2,6-Diaminopurine	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$150.00)	
Dithiol	150.00	175.00	275.00	1,500.00	
EDTA-C2-dT	120.00	150.00	275.00	Less than 3 (Set-up Charge: \$250.00)	
Thymidine Glycol	65.00	80.00	115.00	Less than 3 (Set-up Charge: \$150.00)	
Zebularine	150.00	175.00	275.00	Less than 3 (Set-up Charge: \$150.00)	

Biotin-TEG	50.00	65.00	95.00	380.00
HEX-dT	55.00	66.00	138.00	600.00
Methylene Blue	150.00	175.00	275.00	Less than 3 (Set-up Charge: \$250.00)
Tamra-dT	220.00	250.00	350.00	1,750.00
BHQ1-dT	250.00	275.00	350.00	1,750.00
BHQ2-dT	250.00	275.00	350.00	1,750.00
Dabcyl-dT	250.00	275.00	350.00	1,750.00
Deoxypurine (2'-DeoxyNebu larine)	75.00	90.00	125.00	Less than 3 (Set-up Charge: \$250.00)
Azide	150.00	175.00	275.00	1,500.00
Trebler Branching	220.00	250.00	350.00	1,750.00
O6-Methyl 2'-dG	75.00	90.00	125.00	375.00
O4-Methyl-dT	75.00	90.00	125.00	375.00
dT-Alkyne	225.00	250.00	350.00	1,750.00
Epoch Eclips Quencher	225.00	250.00	350.00	1,750.00
Thiol-dT	225.00	250.00	350.00	1,750.00
Cy3 dA	250.00	275.00	420.00	1,950.00
Cy3 dC	250.00	275.00	420.00	1,950.00
Cy3 dG	250.00	275.00	420.00	1,950.00
Cy3 dT	225.00	250.00	350.00	1,750.00
Cy5 dA	250.00	275.00	420.00	1,950.00
Cy5 dC	250.00	275.00	420.00	1,950.00
Cy5 dG	250.00	275.00	420.00	1,950.00
Cy5 dT	225.00	250.00	350.00	1,750.00
Pyrene-dU	150.00	175.00	275.00	650.00
Perylene-dU	150.00	175.00	275.00	650.00
C8-Alkyne-dT	150.00	175.00	275.00	650.00
C8-Alkyne-dC	150.00	175.00	275.00	650.00
Desthiobiotin TEG	150.00	175.00	275.00	750.00
N3-Methyl dC	150.00	175.00	275.00	650.00
N4-Ethyl dC	150.00	175.00	275.00	650.00
Azobenzene	125.00	175.00	250.00	1,250.00
8-Br-dA	150.00	180.00	250.00	1,250.00
8-Br-dG	150.00	180.00	250.00	1,250.00
5-Br-dC	150.00	180.00	250.00	1,250.00
6-thio-dG	225.00	250.00	350.00	1,750.00
4-thio-dT	225.00	250.00	350.00	1,750.00

Dual labeled Probes	Synthesis Scale				
Modification	50 nmole (\$)	200 nmole (\$)	1 umole (\$)	10 umole	
5'-FAM-3'-TAMRA	165.00	233.00	365.00	(\$) 1,825.00	
5'-HEX-3'-TAMRA	165.00	233.00	365.00	1,825.00	
5'-TET-3'-TAMRA	165.00	233.00	365.00	1,825.00	
5'-JOE-3'-TAMRA	350.00	400.00	800.00	4,000.00	
5'-FAM-3'-DABCYL	177.00	299.00	465.00	2,325.00	
5'-HEX-3'-DABCYL	195.00	295.00	445.00	2,225.00	
5'-TET-3'-DABCYL	195.00	295.00	445.00	2,225.00	
5'-TAMRA-3'-DABCYL	275.00	375.00	555.00	2,775.00	
5'-JOE-3'-DABCYL	300.00	350.00	555.00	2,200.00	
5'-FAM-3'-BHQ1	175.00	250.00	375.00	1,875.00	
5'-HEX-3'-BHQ1	220.00	315.00	470.00	2,350.00	
5'-TET-3'-BHQ1	210.00	295.00	445.00	2,225.00	
5'-JOE-3'-BHQ1	350.00	400.00	600.00	3,000.00	
5'-TAMRA-3'-BHQ1	300.00	350.00	550.00	2,200.00	
5'-ROX-3'-BHQ1	275.00	320.00	520.00	2,080.00	
5'-Texas Red-3'-BHQ1	275.00	320.00	520.00	2,080.00	
5'-Cy3-3'-BHQ1	400.00	450.00	650.00	2,600.00	
5'-FAM-3'-BHQ2	175.00	250.00	375.00	1,875.00	
5'-HEX-3'-BHQ2	220.00	315.00	470.00	2,350.00	
5'-TET-3'-BHQ2	210.00	295.00	445.00	2,225.00	
5'-JOE-3'-BHQ2	350.00	400.00	600.00	3,000.00	
5'-TAMRA-3'-BHQ2	350.00	380.00	570.00	2,850.00	
5'-ROX-3'-BHQ2	350.00	380.00	570.00	2,850.00	
5'-Texas Red-3'-BHQ2	350.00	390.00	625.00	3,125.00	
5'-Cy5-3'-BHQ2	275.00	320.00	480.00	2,400.00	
5'-Cy3-3'-BHQ2	275.00	320.00	480.00	2,400.00	
5'-FAM-BHQ1-dT-Amine-3'	375.00	450.00	650.00	2,650.00	
5'-FAM-Tamra-dT-PO4-3'	375.00	450.00	650.00	2,650.00	
5'-FAM-3'-EBQ	158.00	225.00	338.00	1,688.00	
5'-FAM-EBQ-dT-Amine-3'	388.00	405.00	588.00	2,385.00	
5'-HEX-3'-EBQ	198.00	284.00	423.00	2,155.00	
5'-TET-3'-EBQ	189.00	266.00	401.00	2,002.00	
5'-JOE-3'-EBQ	315.00	360.00	540.00	2,700.00	
5'-TAMRA-3'-EBQ	270.00	315.00	495.00	1,980.00	
5'-ROX-3'-EBQ	315.00	342.00	513.00	2,565.00	
5'-Texas Red-3'-EBQ	315.00	342.00	513.00	2,813.00	
5'-Cy5-3'-EBQ	248.00	288.00	432.00	2,160.00	
5'-Cy3-3'-EBQ	248.00	288.00	432.00	2,160.00	

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