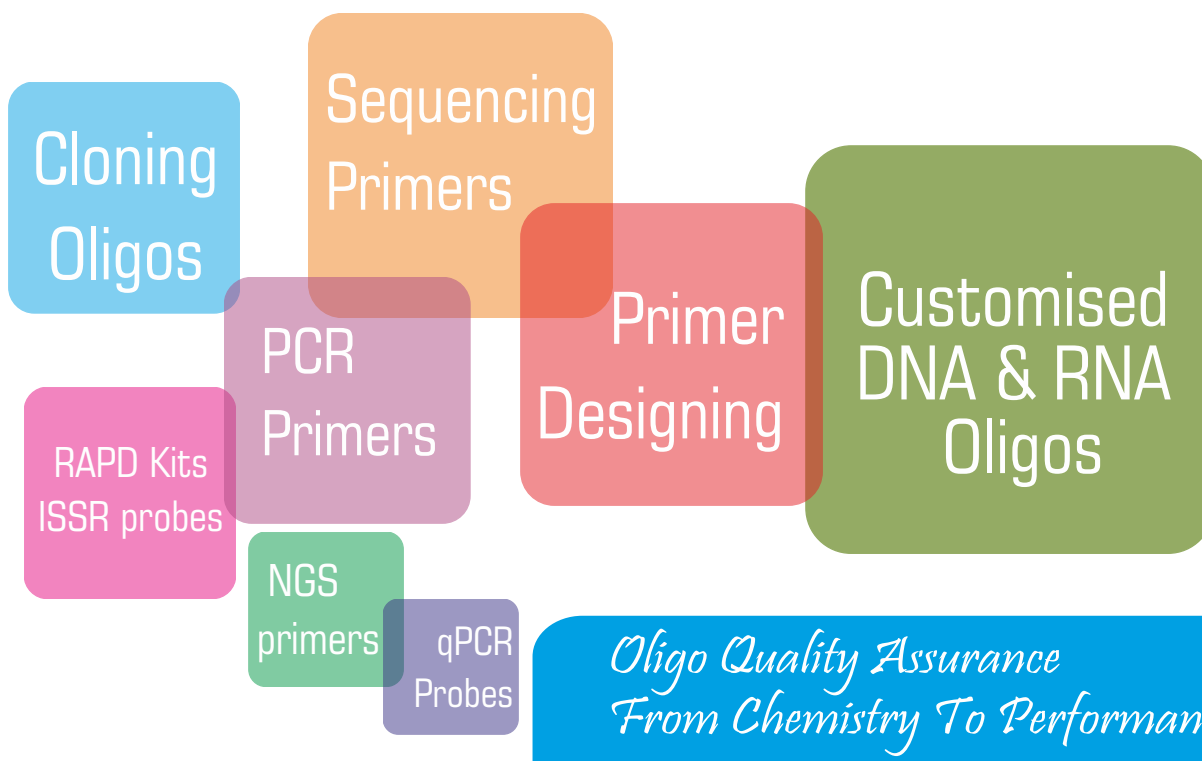




Oligonucleotides



*Is your research delayed because
long wait time for oligos ???*

*Try our **Rapid oligos** service
Oligos on your table by next day noon**

✉ E-mail: oligo@gccbiotech.co.in
☎ Contat:(033) 24950004/1044



* (15-30 mers, desalted , 25 or 50 nmol, order latest by 10.00 A.M IST, minimum 4 oligos per order, Service currently available in Kolkata City only Rs. 4/base extra charges & advance payment).



Experience Advantage

With employees with over a decade of experience in oligo synthesis, you will always get best service & support tailor made for your unique requirement.

Quality Check of Incoming reagents

Most of the reagents used for oligo synthesis are manufactured in our own state of the art Chemistry lab. Few reagents are imported from reputed companies. All the reagents used for oligo synthesis undergo stringent quality check before use. In addition, all suppliers are regularly audited by us.

Process Control

Our oligonucleotides are produced in a highly automated synthesis facility. With the help of the best in the market automated Oligo Synthesizer and other high end related instruments, we are able to produce best quality oligos in very short time.

All orders are given a unique order no. and all oligos a unique barcode no. which are used to track the oligos at all the process steps from order to shipment.

Quality Check of oligonucleotides

All the oligo batches undergo rigorous quality check by trityl check, absorbance, PAGE, PCR with universal primers, Sequencing with universal primers.

Performance Check

Measuring the performance of our oligos, is a crucial cornerstone in our quality assurance. Our oligos undergo rigorous in-house application analyses by PCR, DNA sequencing, NGS, real time PCR, DNA cloning etc.

Modified Custom Oligos

- 5' Modifications (Biotin, Thiol, Amino, 6-FAM, Cy5, Cy3, Phosphate etc.)
- Internal modifications (Inosine, FAM-dT etc.)
- 3' Modifications (BHQ, TAMRA, Biotin-TEG, Inosine, Cy5, Cy3 etc.)

Multiple purification options to choose from for your varied experiments

- Desalted
- Swift LC
- HPLC
- PAGE

Unmodified Custom Oligos

- Degenerate/wobble oligos
- Desalted
- Swift LC purified
- HPLC purified
- PAGE purified
- Oligos in Plate

Ready Made Oligos

- RAPD Kits
- UBC NAPS Unit Standard RAPD primers
- ISSR markers
- Universal primers

Oligo QC by

- Trityl Monitoring
- Absorbance Reading
- PAGE
- PCR with Universal primers
- Sequencing with Universal primers

Multiple Synthesis Scale options to best suit to your requirements

- 10 nmol
- 25 nmol
- 50 nmol
- 200 nmol
- 1000 nmol
- 10000 nmol



OLIGO SYNTHESIS



A. Basic synthesis(Per base Charges) for Desalted Oligo

Description	GC-1A	GC-01	GC-02	GC-03	GC-04	GC-05
Synthesis Scale Tubes	10 nmole	25 nmole	50 nmole	200 nmole	1000 nmole	10000 nmole
Price per base (₹)	16	18	25	38	90	825
Length (bases)	11-39	11-39	11-80	5-100	5-100	5-100
Minimum Yield (OD*)	1	2	3	10	35	250

*Approx. OD for 20 mer oligos

Minimum scale of synthesis for wobble / degenerate oligos is 50 nmol.

B. Oligo Purification charges (₹ / Oligo)

Purification	25 nmole	50 nmole	200 nmole	1000 nmole	10000 nmole
GC-06 HPLC	-	2000	3000	4800	POR
GC-07 PAGE	-	2900	3900	POR	POR
GC-08 Swift LC	700	700	1500	3200	POR

Note: For HPLC / PAGE/Swift LC oligos, Purification rates will be charged in addition to basic synthesis charge.

5' Modifications (GC-M5)

Modification	₹		
	50nmol	200nmol	1000nmol
Digoxigenin	16,500	18,500	28,500
Phosphate	3,500	5,000	8,000
Biotin	5,500	6,800	10,000
Thiol-C6	6,200	7,500	11,500
Thiol-C3	6,200	7,500	13,000
C12 spacer	6,200	8,000	13,000
FAM	6,200	8,000	28,400
TAMRA	11,200	13,400	50,000
HEX	28,000	30,000	27,600
TET	11,000	13,200	27,600
Texas Red	11,000	13,200	57,000
JOE	33,000	37,000	57,000
ROX	33,000	37,000	50,000
Cy5	28,000	30,000	40,000
Cy3	16,000	20,000	40,000
Cv5.5	16,000	20,000	40,000
AlexaFluor 488	16,000	20,000	70,000
AlexaFluor 532	36,000	40,000	86,000
AlexaFluor 546	50,000	55,000	86,000
AlexaFluor 594	50,000	55,000	10,4000
AlexaFluor 647	57,600	65,000	70,000
AlexaFluor 660	36,000	40,000	10,4000
AlexaFluor 750	57,600	65,000	104000
BHQ-2	57,600	65,000	104000

Internal Modifications (GC-MI)

Modification	₹		
	50nmol	200nmol	1000nmol
Internal Amino Modifier C6 dT	21,600	27,000	42,000
Internal Biotin-dT	29,000	31,000	48,000
Fluorescein dT	29,000	35,000	48,000
C3 spacer	7,000	9,000	12,600
C6 spacer	7,000	9,000	12,600
C12 spacer	7,000	9,000	12,600
Inosine	1,200	16,000	2,900
DeoxyUridine	2,500	3,500	5,000
Cy3	32,000	40,000	70,000
Cy5	3,200	40,000	70,000
Cy3.5	3,600	50,000	76,000
Cy5.5	3,600	50,000	76,000
TamradT	4,400	55,000	70,000
BHQ1dT	50,000	55,000	70,000
BHQ2dT	50,000	55,000	70,000
DabcyldT	50,000	55,000	70,000
Cy3 dA	50,000	55,000	84,000
Cy3 dC	50,000	55,000	84,000
Cy3 dG	50,000	55,000	84,000
Cy3 dT	40,000	50,000	70,000
Cy5 dA	50,000	55,000	84,000
Cy5 dC	50,000	55,000	84,000
Cy5 dG	50,000	55,000	84,000
Cy5 dT	45,000	50,000	70,000



3' Modifications (GC-M3)

Modification	₹		
	50nmol	200nmol	1000nmol
Digoxigenin	16,500	18,500	28,500
C6 Amine	4,500	8,000	11,400
Phosphate	5,500	8,000	11,400
Biotin	10,800	12,000	20,000
C3 spacer	7,200	9,000	13,200
C6 spacer	7,200	9,000	13,200
C12 spacer	7,200	9,000	13,200
FAM	10,000	12,000	22,000
TAMRA	15,400	19,200	27,400
Thiol	14,000	18,000	26,000
TexasRed	33,000	37,000	57,000
JOE	33,000	37,000	57,000
ROX	28,000	30,000	50,000
Cy5	19,000	23,000	35,000
Cy3	19,000	23,000	35,000
Dabcyl	16,000	20,000	40,000
BHQ1	16,000	20,000	40,000
BHQ2	16,000	20,000	40,000
Cholesteryl	16,000	20,000	48,000
3'-Inverted dT	7,600	10,000	16,000
3'-Inverted dA	7,600	10,000	16,000
3'-Inverted dC	7,600	10,000	16,000
3'-Inverted dG	7,600	10,000	16,000
AlexaFluor 488	36,000	40,000	70,000
AlexaFluor 532	50,000	55,000	86,000
AlexaFluor 546	50,000	55,000	86,000
AlexaFluor 594	57,600	65,000	10,400
AlexaFluor 547	36,000	55,000	70,000
AlexaFluor 660	57,600	65,000	104,000
AlexaFluor 750	57,600	65,000	104,000

Dual-labeled Probe (GC-DLP)

Modification	₹		
	50nmol	200nmol	1000nmol
5'-FAM-3'-TAMRA	33,000	46,600	73,000
5'-HEX-3'-TAMRA	33,000	46,600	73,000
5'-TET-3'-TAMRA	33,000	46,600	73,000
5'-JOE-3'-TAMRA	70,000	80,000	160,000
5'-FAM-3'-BHQ1	35,000	50,000	75,000
5'-HEX-3'-BHQ1	44,000	63,000	94,000
5'-TET-3'-BHQ1	42,000	59,000	89,000
5'-JOE-3'-BHQ1	70,000	80,000	120,000
5'-TAMRA-3'-BHQ1	60,000	70,000	110,000
5'-ROX-3'-BHQ1	55,000	64,000	104,000
5'-Texas Red-3'-BHQ1	55,000	64,000	104,000
5'-Cy3-3'-BHQ1	80,000	90,000	130,000
5'-FAM-3'-BHQ2	35,000	50,000	75,000
5'-HEX-3'-BHQ2	44,000	63,000	94,000
5'-TET-3'-BHQ2	42,000	59,000	89,000
5'-JOE-3'-BHQ2	70,000	80,000	120,000

Despatch Schedule

Unmodified Desalted	2-3 Working Days
HPLC / PAGE	10 working days
Swift LC	5-6 working days
RAPD Primer Kits	4 working days
Modified Primer	21 working days

Cat. #	Product	Pack Size	Price in ₹
GABP-07	AFLP Primer	10,000 Picomol	POR*
GABP-08	AFLP Primer	80,000 Picomol	POR*
GABP-09	AFLP Primer	200,000 Picomol	POR*

POR* Price On Request, Please contact our e-mail tech.support@gccbiotech.co.in

Technical Information

Resuspension of Oligos

Oligonucleotides may be dissolved in water or in dilute buffers at or near pH 7.0. If non-buffered solution are to be prepared, and since laboratory distilled water is often slightly acidic, the pH of the water should be raised to pH 7.0 prior to dissolving the oligonucleotide. This may be accomplished by using a dilute sodium hydroxide or ammonia solution to adjust the pH of the water.

Storage of Oligos

Oligonucleotides as lyophilised powders are stable for years when stored at -20°C. They are less stable in solution but can be kept for several months if kept at -20°C in sterile water or dilute buffers at or slightly above pH 7.0.





RAPD Primers

Oligos specifically developed for Random Amplified Polymorphic DNA (RAPD) analysis, RAPD is a technique used for DNA fingerprinting and genetic mapping, RAPD markers are single 10 mer oligonucleotides of arbitrary sequence, used as primers in PCR to amplify genomic DNA where the sequence of the DNA is completely unknown.

Product Specifications

100/20 predefined 10mer primers in every kit, Synthesis yields: 4OD>, Primer length: 10 bases, available as single primers or complete kits, Delivery: lyophilised in tube format

UBC-NAPS Unit Standard Primers

Product	Pack Size	Price in ₹
RAPD Primer Set #1	(4 OD/tube, 100 Primers)	POR*
RAPD Primer Set #2	(4 OD/tube, 100 Primers)	POR*
RAPD Primer Set #3	(4 OD/tube, 100 Primers)	POR*
RAPD Primer Set #4	(4 OD/tube, 100 Primers)	POR*
RAPD Primer Set #5	(4 OD/tube, 100 Primers)	POR*
RAPD Primer Set #6	(4 OD/tube, 100 Primers)	POR*
RAPD Primer Set #7	(4 OD/tube, 100 Primers)	POR*

POR* Price On Request, Please contact our e-mail tech.support@gccbiotech.co.in

Additional Services

Printout of synthesis report	FREE
Soft copy of synthesis report	FREE
Extra tube Labels	15 / Label
Wobbles with non-defined ratio	FREE
Amount adjustment in tubes	100 / oligo
Multiple Aliquoting in tubes	150 / aliquot
Mixing of oligos in one tube	100 / oligo

Price ₹ 7525 (20 Oligo Set) / ₹ 395 Per Oligo

Kit-A		Kit-B		Kit-C		Kit-D	
Name	Sequence	Name	Sequence	Name	Sequence	Name	Sequence
GCA-01	CAGGCCCTTC	GCB-01	GTTTCGCTCC	GCC-01	TTCGAGCCAG	GCD-01	ACCGCGAAGG
GCA-02	TGCCGAGCTG	GCB-02	TGATCCCTGG	GCC-02	GTGAGGCGTC	GCD-02	GGACCCAACC
GCA-03	AGTCAGCCAC	GCB-03C	ATCCCCCTG	GCC-03	GGGGGTCTTT	GCD-03	GTCGCCGTCA
GCA-04	AATCGGGCTG	GCB-04	GGA CTGGAGT	GCC-04	CCGCATCTAC	GCD04	TCTGGTGAGG
GCA-05	AGGGGTCTTG	GCB-05	TGCGCCCTTC	GCC-05	GATGACCGCC	GCD05	TGAGCGGACA
GCA-06	GGTCCCTGAC	GCB-06	TGCTCTGCC	GCC-06	GAACGGACTC	GCD06	ACCTGAACGG
GCA-07	GAAACGGGTG	GCB-07	GGTGACGCA	GCC-07	GTCCCGACGA	GCD07	TTGGCACGGG
GCA-08	GTGACGTAGG	GCB-08	GTCCACACGG	GCC-08	TGGACCGGTG	GCD-08	GTGTGCCCCA
GCA-09	GGGTAACGCC	GCB-09	TGGGGGACTC	GCC-09	CTCACGTCC	GCD-09	CTCTGGAGAC
GCA-10	GTGATCGCAG	GCB-10	CTGCTGGGAC	GCC-10	TGTCTGGGTG	GCD-10	GGTCTACACC
GCA-11	CAATCGCCGT	GCB-11	GTAGACCCGT	GCC-11	AAAGCTGCGG	GCD-11	AGCGCCATTG
GCA-12	TCGGCGATAG	GCB-12	CCTTGACGCA	GCC-12	TGTCATCCCC	GCD-12	CACCGTATCC
GCA-13	CAGCACCCAC	GCB-13	TTCCCCCGCT	GCC-13	AAGCCTCGTC	GCD13	GGGGTGACGA
GCA-14	TCTGTGCTGG	GCB-14T	CCGCTCTGG	GCC-14	TGCGTGCTTG	GCD-14	CTTCCCCAAG
GCA-15	TTCCGAACCC	GCB-15	GGAGGGTGTT	GCC-15	GACGGATCAG	GCD-15	CATCCGTGCT
GCA-16	AGCCAGCGAA	GCB-16	TTTGCCCGGA	GCC-16	CACACTCCAG	GCD16	AGGGCGTAAG
GCA-17	GACCGCTTGT	GCB-17	AGGGAACGAG	GCC-17	TTCCCCCAG	GCD-17	TTTCCCACGG
GCA-18	AGGTGACCGT	GCB-18	CCACAGCAGT	GCC-18	TGAGTGGGTG	GCD18	GAGAGCCAAC
GCA-19	CAAACGTCGG	GCB-19	ACCCCCGAAG	GCC-19	GTTGCCAGCC	GCD-19	TGGGGACTT
GCA-20	GTTGCGATCC	GCB-20	GGACCCTTAC	GCC-20	ACTTCGCCAC	GCD-20	ACCCGGTCAC