

Custom Oligonucleotide Synthesis

Custom Oligonucleotide Service:

Bangalore Genei offers custom oligonucleotide service to scientists nationwide.

Features:

1. Oligonucleotides available as (a) Crude (b) Desalted (c) PAGE purified.
2. Choice of purification (a) Desalting: using sephadex G-25 columns (b) PAGE purification: 20% polyacrylamide + 7M urea gel electrophoresis.
3. Modifications available (a) Inosine - at any position other than 3' end (b) Biotin and Fluorescein - only at 5' end.
4. Certificate of analysis includes primer length, sequence, yield, concentration and purity.
5. Product quality checked by PAGE analysis of the primer.
6. Oligos will be supplied in lyophilized form.
7. Quick delivery.
8. On line ordering - geneiservice@sanmargroup.com

Note:

- Order should accompany primer sequence with indication of 5' - 3' ends.
- No mixed bases at 3' end.
- Please use the IUPAC-code for mixed bases (M = A/C, R = A/G, W = A/T, Y = C/T, S = C/G, K = G/T, H = A/C/T, V = A/C/G, D = A/G/T, B = C/G/T, N = A/C/G/T).

Crude oligo: Deprotected oligo with 85-90% of full length product along with 10-15% of failure sequences, salts and protective chemical groups.

Application: Standard PCR, Hybridization, Probing etc.

Desalted oligo: Desalting of crude oligo on Sephadex G-25 column, removes ammonium salts and protective chemical groups which gives 85 - 90% of full length product along with 10-15% of failure.

Application: PCR, Probing, Cycle sequencing, Hybridization, Primer extension.

PAGE Purified oligo: Crude oligo purified on 20% Urea PAGE followed by desalting on Sephadex G-25 yields 95-99% purity. Total yield is lower due to relative ineffective recovery of oligo from the gel and Sephadex G-25 column. The basis of separation of the oligo is by molecular weight and charge.

Application: Cloning, RT-PCR, Site Directed Mutagenesis, Gel Shift Assay, DNA fingerprinting, *in situ* hybridization, Microsatellite polymorphism, Gene synthesis.

Ordering Information:

Product	Size	Cat #
Desalted Oligo (Yield: 1-2 O.Ds; length upto 30 mer) (No mix base)	Per base	107471*♦
Desalted Oligo (Yield: 8-10 O.Ds)	Per base	107472*
Desalted Oligo (Yield: 2-3 O.Ds length upto 30 mer) (No mix base)	Per base	105292*
Desalted Oligo (Yield: 4-5 O.Ds)	per base	105290
PAGE Purified Oligo (Yield: 1-2 O.Ds)	per base	105291
Crude Oligo (Yield: 8-10 O.Ds)	per base	105289
Crude Oligo: PAGE purification (Yield: 3-4 O.Ds)	per oligo	105298
Crude Oligo: Additional charges for Inosine Labelling	per oligo	105295
Crude Oligo: Additional charges for Biotin Labelling	per oligo	105293
Crude Oligo: Additional charges for Fluorescein Labelling	per oligo	105294

Note:

* Primer length upto 35 mer.

♦ Single order with >4000 couplings

Above Prices are quoted for length upto 70 mer.

Enquire for length > 70 mer

Service Tax as applicable will be charged extra