

The PrimeX Experience

The best complement for your DNA



- Xcelris is an ISO 9001:2008 certified state of the art research organization delivering high-quality products to match researchers needs. We offer a complete line of custom oligonucleotide synthesis and purification services for your research. PrimeX oligos are synthesized on completely automated and high throughput Dr. Oligo 96/192 platform.
- Our oligos come with a guarantee of high performance for a wide spectrum of research applications including:
 - ▶ Sequencing
 - ▶ Microsatellite Genotyping
 - ▶ PCR and RT-PCR
 - ▶ Cloning
 - ▶ RAPD and Universal Primers
 - ▶ Permissible Wobble bases
 - ▶ Diagnostics

Xcelris offers a convenient primer design service. We can design, for instance, PCR primer pairs for DNA amplification of specific regions for your research needs like cloning, sequencing, and detection experiments.

ADVANTAGE PrimeX

- High Throughput Automated System
- Online synthesis report
- Highest purity at lowest price
- RAPD/Universal kit primers
- Committed TAT



Modified DNA Oligos

Non-fluorescent

3'Biotin, 5' Biotin, Phosphorylation (PHOSs), Thiol Modifier, Inosine

Fluorescent dye

FAM, FITC, Fluorescein, TET, JOE, Cy3, TAMRA, Rhodamine Red, ROX, Texas Red, Cy 3.5, Cy 5, BHQ1, BHQ2



Complete range of purification services

Desalting

All oligos synthesized are processed through normal phase chromatography column which removes salts but not failure sequences. Desalted oligos are ready-to-use, suitable for many PCR and sequencing applications without further purification.

Useful for various applications like PCR, AFLP, RFLP.

RP1

Purification on reverse phase cartridge ensures higher purity scales. It removes failure sequences. As the length of oligos increases, the proportion of truncated sequences tends to increase. These impurities will not be removed by RP1 and thus for longer oligos, HPLC or PAGE is recommended.

RP1 is the recommended purification for Oligos greater than 35 to 50 bases.

Useful for applications like Sequencing, DNA Fingerprinting, RT-PCR, RFLP, First strand DNA synthesis.

HPLC

HPLC is an efficient purification method for oligos with fluorophores, as their intrinsic lipophilicity provides excellent separation of product from its contaminants. RP-HPLC is a method of choice for larger scales due to the capacity and resolving properties of the column. As resolution depends on lipophilicity it will decrease with the length of the oligo.

RP-HPLC is usually not recommended for purifying products longer than 60 bases.

Useful for applications like Antisense studies, Cloning adapters, Real Time PCR.

PAGE

PAGE purification is considered a "Gold Standard" in purification, leading to excellent size resolution, resulting in purity levels of 95–99% of full-length product. This technique is recommended when a highly purified product is required. This method is used to differentiate full-length product from failure sequences based on size and conformation. It provides the highest percentage of full-length oligos ($\geq 85\%$) required for certain demanding applications such as mutagenesis or adapter production.

PAGE is the recommended purification for longer oligos (≥ 40 bases).

Useful for applications like Mutagenesis, Gene Synthesis, Primer Extension, Cloning adapters.

Minimum guaranteed yield at OD260

Purification type	Length	15-34		5-80	5-100		
	Scale (nmole)	10	25	50	100	200	1000
Desalted	OD260	5-7	7-8	8-10	18-20	21-25	35-40
RP1		1-3	2-4	2-5	5-8	8-12	12-15
HPLC		N/A	N/A	2-5	5-8	8-10	10-12
PAGE		N/A	N/A	1.5-3	3-5	5-7	7-10

Sample Requirement: Oligo name, Sequence in 5'-3' direction, Length, Purification

PrimeX™

Oligo Synthesis & Purification Services

- 10 nmole • 25 nmole • 50 nmole
- 100 nmole • 200 nmole • 1000 nmole

		Desalted Purification	RP1 Purification	HPLC Purification	PAGE Purification
Length	Scale	Cat. no.	Cat. no.	Cat. no.	Cat. no.
15-34	10	PrimeX_10	PrimeX_10_Pur_RP1		
15-34	25	PrimeX_25	PrimeX_25_Pur_RP1		
5-80	50	PrimeX_50	PrimeX_50_Pur_RP1	PrimeX_50_Pur_HPLC	PrimeX_50_Pur_PAGE
5-100	100	PrimeX_100	PrimeX_100_Pur_RP1	PrimeX_100_Pur_HPLC	PrimeX_100_Pur_PAGE
5-100	200	PrimeX_200	PrimeX_200_Pur_RP1	PrimeX_200_Pur_HPLC	PrimeX_200_Pur_PAGE
5-100	1000	PrimeX_1000	PrimeX_1000_Pur_RP1	PrimeX_1000_Pur_HPLC	PrimeX_1000_Pur_PAGE

XcelGen®
Quality Kits made by **Xperts**

XcelSeq
Sanger Sequencing Services

NXT
NGS Services

XPet
Premium Lab Accessories by **Xperts**

Name : Mobile.:

xcelris
genomics
An **Abellon** Company

Xcelris Labs Ltd

Sydney House, Old Premchand Nagar Road, Nr. Parivar Society, B/h Satyagrah Chhavani, Bodakdev, Ahmedabad-380015. Gujarat, India. Tel.: +91-79-66197777 / Fax: +91-79-66309341
e-mail: bdgenomics.corp@xcelrislabs.com • Website: www.xcelrislabs.com