

## SynoC Oligo Synthesis User Instruction

Thank you for choosing Synbio Technologies as your research partner! This guide contains general technical information of the products details. Please closely follow the instructions for maximum experiment performance.

### Delivery Contents

This section lists the standard delivery contents of Syno C platform products

Product	Quantity	Storage Condition
2 OD DNA powder	1 tube each	-20°C
Instruction Manual/Synthesis report	1	-

Note: DNA is delivered in the form required by the customer, generally in 2 OD powder.

### Technical Parameters

OD: The quantity of DNA is measured by absorbance at 260nm. Other parameters such as molecular weight, nmole, T<sub>m</sub> value are provided in the synthesis report.

### Dilution, Storage and Usage

Centrifuge at 5000rpm for 15 seconds to gather powder to the bottom. Gently open the tube to avoid loss of powder. Add deionized water or TE buffer (PH=8.0), then vortex gently for complete dissolution. nmole values are marked on all oligo products. To prepare a 100  $\mu$ M solution, multiply the total amount in nmol by 10, and add the same volume of deionized water or TE buffer.

Oligos should be stored at -20°C, and can be frequently used within six months. However, repetitive freezing and thawing should be avoided. Separate storage is recommended if multiple freezing and thawing is needed.

### Fluorescently Labeled Primers Dilution, Storage and Usage

Most fluorescently labeled primers (FAM, HEX, ROX, Cy3, Cy5, etc) are very sensitive to light. Please keep the samples away from light, and dilute them only before usage. Oligos marked with Cy3 and Cy5 should be stored at -20°C, away from light, in pH-neutral conditions (pH=7.0). It is recommended to dissolve non-Cy3/5 labeled oligos in TE buffer (pH=8.0).

### IUB Codes for Degenerate Bases

M=A/C;R=A/G;W=A/T;S=G/C;Y=C/T;K=G/T;V=A/G/C;H=A/C/T;D=A/G/T;B=G/C/T;N=A/G/C/T

## **Quality Assurance**

Please contact us with related data and pictures if you have any questions about our product.

In case of potential quality issue, our whole production and transport processes will be checked to ensure high service quality.

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