

Fragment XP Synthesis User Instruction

Thank you for choosing Synbio Technologies as your research partner. Before using our products, we kindly ask you to carefully read the following instructions to ensure optimal experimental results.

We provide DNA Fragment XP services, with sequences ranging from 125 to 3000bp, including both regular and high difficulty sequences. The PCR products are compatible with downstream cloning, with a cloning success rate exceeding 90%. Our cost-effective DNA fragments cater to various applications in research and development fields, such as gene engineering, gene expression studies, gene editing, antibody drug screening, vaccine research, etc.

Packaging Contents

The standard delivery of Synbio Technologies' Syno GS platform series products include the following:

Deliverables	Quantity	Storage Conditions
1 µg Lyophilized	1 tube	-20°C
Product instructions	1 copy	NA
Digital experimental report	1 set	NA

Note: Complex Sequences: Sequences containing hairpin structures, repetitive sequences, GC content above 70% or below 30%, etc. Special requests will be delivered according to the content agreed in the quote.

User Instructions for DNA Fragments

1. Quantification of DNA Fragments

The quantity of DNA fragments is measured by absorbance at 260nm. Due to differences in instrument precision, there may be a margin of error within 10%.

2. Appearance of DNA Fragments

The DNA fragments are vacuum-concentrated and dried, generally appearing as a white or transparent film, which cannot be accurately observed by the naked eye.

3. Usage of DNA Fragments

The DNA fragments are attached to the inner wall of the tube bottom after vacuum-concentration and drying. Due to potential vibration during transportation, centrifuge the tube at 12000rpm for 1 minute before use. Then, based on the indicated quantity on the label and the desired concentration, add the required amount of ddH₂O or TE

buffer solution (pH=8.0), vortex vigorously to dissolve it completely. The diluted DNA fragments can be directly used for experiments such as PCR or enzymatic digestion. For example, if you need a storage concentration of 100ng/ μ l for DNA fragments, the amount of water or TE (μ l) to be added = μ l number per tube \times 10.

4. Storage of DNA Fragments

DNA fragments in dry powder form can be stored long-term at -20°C. Once dissolved, please store the samples at -20°C, they are generally stable for use within 6 months. Repeated freezing-thawing cycles will reduce their shelf life. If multiple uses are required, it is recommended to perform multi-tube aliquots after the initial dissolution.

Special Notice

If you have any questions about our products, please contact us promptly and provide relevant data and images. If there are suspected quality issues, we will inspect the entire production and transportation process to ensure your consumer rights.

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