

Library Dilution Buffer

NQ106

Version 25.1



Product Description

Library Dilution Buffer is designed for accurate dilution of DNA templates. When DNA template is diluted in ddH₂O or other buffers, especially to very low concentrations, adsorption to microtubes and similar containers may lead to inaccurate dilutions. The optimized components of this product prevent DNA template from binding to microtubes and similar containers, enabling accurate dilutions over a wider range.

Components

Components	NQ106
Library Dilution Buffer	50 ml

Storage

Store at -30 ~ -15°C and ship at ≤0°C.

▲ For short-term repeated use, Library Dilution Buffer can be thawed and stored at 2 ~ 8°C for up to three months.

Applications

It is applicable to the dilution of next-generation sequencing (NGS) libraries for library quantification and standard curve preparation.

Notes

1. High-concentration DNA solutions tend to be viscous and poorly dispersed. Large-volume dilutions (e.g., 10,000-fold in a single step) should be avoided. Multiple small-volume dilutions are recommended. For example, to achieve a 10,000-fold library dilution, perform two consecutive 100-fold dilutions.
2. To prevent contamination of the diluent, it is recommended that library dilution, master mix preparation, and template addition be performed in three physically separated areas.
3. Once completely thawed and thoroughly mixed, this buffer can be used directly to dilute DNA libraries or templates. To ensure accurate quantification, perform a serial dilution carefully based on the concentration of the library or template. Keep the diluted samples on ice for later use. It is recommended to prepare the dilutions freshly and mix thoroughly before use. Do not store the diluted samples for extended periods.

For Research Use Only. Not for use in diagnostic procedures.