



GB dNTP mix (10mM each)

For Research use only

Cat No: GB2412

Size : 15 ml

Description:

GB dNTP Mix (10mM) is created by enzymatic synthesis techniques and superior purification protocols ensure the highest quality for deoxynucleotides. This product is ultrapure (>99.9%) and the quality is checked by a set of PCR, RTPCR, and Klenow reactions. GB dNTP Mix is suitable for various PCR amplifications including long PCR.

How to use:

Thaw the dNTP mix on ice or at room temperature. Mix the dNTP solution by vortexing and pulse centrifugation to ensure homogeneity.

PCR Setup:

- Prepare the PCR reaction mix by adding the required components: template DNA, primers, Taq DNA polymerase, PCR buffer, and the dNTP mix 1.
- Ensure equal concentrations of all four dNTPs (dATP, dCTP, dGTP, dTTP) in the PCR mixture.
- The recommended final concentration of each dNTP is typically 0.2 mM.

PCR Cycling Conditions:

- Perform an initial denaturation step at 95°C for 0-10 minutes to activate the dNTP mix. Follow the standard thermal cycling protocol for your specific PCR application.

Post-PCR Handling:

- Store PCR products at -20°C or 4°C, depending on the downstream application.
- Avoid prolonged exposure to room temperature to maintain the stability of the dNTP mi

Tips:

- Always mix the dNTP solution well before use.
- Avoid more than 20 freeze-thaw cycles to maintain the integrity of the dNTP mix.
- Handle the dNTP mix on ice during PCR setup to prevent degradation
- Aliquot the dNTP mix into smaller volumes (e.g., 5 mM aliquots) to avoid repeated freeze-thaw cycles.
- Store aliquots at -20°C for long-term stability.

