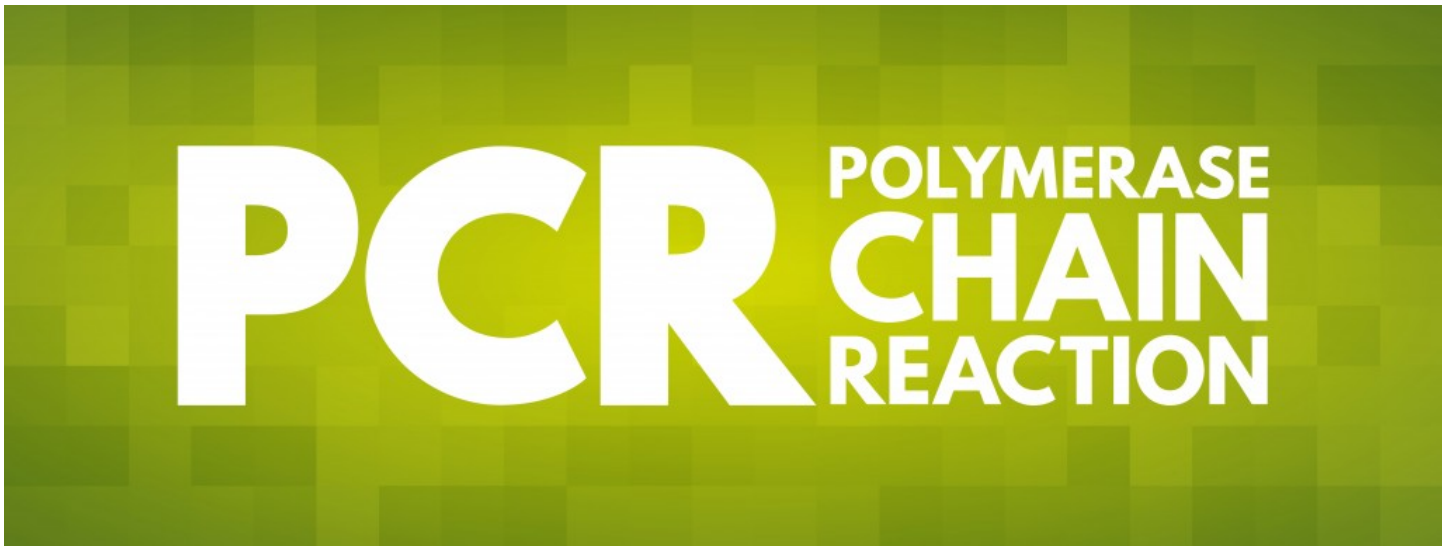
A Catalog of dNTPs Released by BOC Sciences Largely Speed Up PCR Experiments



New York City, New York Jul 4, 2022 (Issuewire.com**)** - *BOC Sciences announced the availability of deoxynucleotide triphosphates (dNTPs) in solutions for each individual species or as a mix of all four species while custom formulations are also offered for specific requirements.*

The news released by BOC Sciences that multiple dNTPs are now provided for global customers enormously excites pharmaceutical industry practitioners, especially those who are specialized in PCR techniques. Why do dNTPs gather so much attention from the industry? The answers lie in their special functions as building blocks for new DNA synthesis. dNTPs provide nucleotides to the "unzipped" strand using the template of a single side, which can double a single strand of DNA and make it expand exponentially.

Owing to its advantageous applications in the polymerase chain reaction (PCR), dNTPs naturally become the focus of BOC Sciences, the renowned (bio)chemical manufacturer serving mainstream needs in the pharma industry. After years of devotion, particularly by working with an expert team, BOC Sciences has been qualified to manufacture a catalog of dNTPs and dNTP mixes for PCR, such as dATP, dCTP, dGTP, dTTP, and dUTP.

The technical director of BOC Sciences introduced, "Our dNTPs are purified with preparative HPLC and possess the desired purity level. Besides, rigorous control standards and frontier technology also ensure the best quality of dNTPs."

In addition to purity and quality, other aspects are also vital factors that may lead to the success or failure of the PCR process, thus requiring extra attention for control. For instance, lower concentrations of dNTPs may increase both the specificity and fidelity of the reaction while excessive concentrations can actually inhibit PCR. DNase and RNase contamination may threaten the final results as well. To avoid these problems and guarantee the best performance, BOC Sciences takes every strategy it could.

For instance, BOC Sciences' ready-to-use solutions of deoxynucleotide triphosphates (dNTPs) are

extensively tested and verified for application in PCR, real-time PCR, high-fidelity PCR, long PCR, *etc.*, significantly decreasing pipetting steps by adding nucleotides as a mix. To further facilitate the progress in PCR, BOC Sciences offers the most affordable price with discounts for bulk purchasing.

Apart from the rich categories of dNTPs, BOC Sciences has also designed many nucleoside triphosphates (NTPs), the ideal raw materials for *in vitro* transcription, RNA amplification, and siRNA synthesis. With the continuous enrichment and improvement in its NTP and dNTP products, increasing experiments in molecular biology are assured to obtain solid material support.

About

BOC Sciences provides a wide range of chemicals and biochemicals. Its quality NTPs and dNTPs have served global researchers or corporations in the research of PCR and other molecular biology applications.

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