Datasheet

ddNTPs from GeneON

in combination with modified Taq DNA Polymerase are used as 3'-end chain terminators in Sanger sequencing. @ pH 8,0 in water the high purity between 98 – 99 % (HPLC) offers a great performance in chain termination sequencing.

The nucleotides are especially manufactured and tested for application in sequencing reactions.

Application:

2‘,3‘-Dideoxynucleoside triphosphates inhibit the chain elongation of a given primer catalyzed by the DNA polymerase (e.g. Klenow enzyme) and are therefore used for DNA sequencing according to Sange. Sequencing is achieved by including in each reaction a dideoxynucleotide that acts as a chain terminator. Four reactions are set up, each containing the same template and primer but a chain terminator specific for A, C, G or T. Because only a small amount of the chain terminator is included, incorporation into the new DNA strand is a random event. Each reaction therefore generates a collection of fragments, but every DNA strand will end at the same type of base (A, C, G or T).

Order Information

Prod. No.	Description	Quantity
S9110-020A	Single ddNTP´s (conc. 10mM)	200 µg
S9110-025A	Single ddNTP´s (conc. 10mM)	1000 µg
S9110-020C	Single ddNTP´s (conc. 10mM)	200 µg
S9110-025C	Single ddNTP´s (conc. 10mM)	1000 µg
S9110-020A	Single ddNTP´s (conc. 10mM)	200 µg
S9110-020A	Single ddNTP´s (conc. 10mM)	1000 µg