



Catalog Number: 4810-30-04

Size: 30  $\mu$ L

## ***TdT dNTP Mix***

### **DESCRIPTION**

TdT (Terminal Deoxynucleotidyl Transferase) dNTP Mix supplies the biotinylated nucleotides for incorporation into apoptotic DNA fragments via the terminal deoxynucleotidyl transferase mediated dUTP nick end labeling (TUNEL) reaction. The nucleotides are provided in concentrations optimized for the TUNEL reaction utilized in FlowTACS<sup>™</sup>, CardioTACS<sup>™</sup>, TumorTACS<sup>™</sup>, and TdT *in situ* apoptosis detection kits.

### **APPLICATIONS**

Use the dNTP mix, in combination with TdT, to label DNA strand breaks present in apoptotic cells.

### **STORAGE**

This product is stable when stored at  $\leq -20^{\circ}$  C. Avoid multiple freeze/thaw cycles by storage in appropriate aliquots. Do not store in a frost-free freezer.

### **INSTRUCTIONS FOR USE**

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Refer to the instructions provided with each TACS<sup>™</sup> *in situ* Apoptosis Detection Kit for complete details. Prepare a labeling reaction mix for each sample by combining in the order listed:

TdT dNTP Mix	1 $\mu$ L
50X divalent cation	1 $\mu$ L
TdT Enzyme	1 $\mu$ L
1X TdT Labeling Buffer	50 $\mu$ L

Pipet 50  $\mu$ L of labeling reaction mix onto each sample. Cover with a hydrophobic coverslip and incubate for 1 hour at 37 $^{\circ}$  C.

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