



FastTag[®] labeling or 3' EndTag[™] of nucleic acids:

Reconstitute with 500 μ l of anhydrous dimethyl sulfoxide (DMSO) and store at -20 °C to -80 °C in the dark.

Labeled control DNA is included as a reference standard in FastTag[®] nucleic acid labeling protocols to verify successful labeling.

Follow the protocol included with the FastTag[®] system or 3' EndTag[™] labeling products.

5' EndTag[™] labeling of nucleic acids:

Reconstitute Fluorescein Maleimide in 883 μ l of anhydrous dimethyl sulfoxide (DMSO) and store at -20 °C to -80 °C in the dark.

Follow the labeling procedure included with the 5' EndTag[™] system.

Protein labeling procedure:

1. Dissolve the protein to be labeled in 100 mM phosphate buffer, pH 7.0 at a concentration of 5 mg/ml.
2. Dissolve a slight excess of the amount needed of Fluorescein Maleimide in dimethyl sulfoxide (DMSO) at a concentration of 20 mg/ml.
3. Add 25 μ l Fluorescein Maleimide per ml of protein solution.
4. Incubate at room temperature for 3 hours with occasional stirring.
5. Separate the unreacted material from the protein by gel filtration or dialysis.

References:

1Deziel, M.R. and Mau, M.M. 1990. Biotin-conjugated reagents as site-specific probes of membrane protein structure: application to the study of the human erythrocyte hexose transporter. *Anal. Biochem.* 190:297-303 .

2Daniel, S.G., Westling, M.E., Moss, M.S., and Kanagy, B.D. 1998. FastTag[™] nucleic acid labeling system: A versatile method for incorporating haptens, fluorochromes, and affinity ligands into DNA, RNA, and oligonucleotides. *BioTechniques.* 24:484-489.

Selected reagents for the detection of the Fluorescein label:

Anti-Fluorescein, made in goat	SP-0601	•	1mg
Alkaline Phosphatase Anti-Fluorescein, made in goat	MB-2100	•	150 μ g
Biotinylated Anti-Fluorescein, made in goat	BA-0601	•	0.5mg
Peroxidase Anti-Fluorescein, made in goat	SP-1910	•	0.5mg

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