

Click-iT® DIBO Detection and Labeling Reagents



Green Benefits

- Alternative to radioisotopes—eliminates the exposure, handling, storage, and disposal of radioactive materials from your laboratory
- Less Hazardous—eliminates the use of hazardous metal [Cu(I) and Cu(II)] catalysts

Introduction

Life Technologies is committed to designing our products with the environment in mind—it's one more step toward a smaller footprint. Using Click-iT® DIBO Detection and Labeling Reagents provides an alternative to exposure to radiation for performing common cellular and biochemical analyses including monitoring protein synthesis and metabolism utilizing the isotope 35S-methionine.

The novel chemistries developed for Click-iT® DIBO Detection and Labeling Reagents enable detection at similar sensitivity as radioactivity, without requiring the use of radioisotopes. This eliminates the need for radioactive licenses, and burdensome regulatory requirements such as reporting, record keeping, medical surveillance, shielding, and special disposal requirements. Use of radioactive materials requires a separate stream of controls for handling, storage, and disposal as compared to other hazardous materials. Use of Click-iT® DIBO Detection and Labeling Reagents eliminates this extra paperwork, specialized use of Personal Protective Equipment, and set up of alternative

disposal streams. In addition, applying the principles of green chemistry¹, the hazardous metal [Cu(I) and Cu(II)] catalysts are eliminated.

Product Description

The Click-iT® DIBO Detection and Labeling Reagents support in vivo and in vitro detection and labeling of proteins/peptides and other small biomolecules for monitoring biological viability and activity.

Green Features Less Hazardous

Traditional technology for in vivo and in vitro labeling of protein/peptides and other small biomolecules utilizes radioactive tracers. In addition to the inherent physical and biological hazards associated with the use of radioactivity, regulatory management activities are intensive and waste storage and/or disposal costs are very high. In addition, by applying the principles of green chemistry¹, we have eliminated the hazardous metal [Cu(I) and Cu(II)] catalysts.

Please see the MSDSs for this line of products at www.invitrogen.com.

References

1. P. Anastas and J. Wagner, "Green Chemistry: Theory and Practice," Oxford University Press: New York, 1998.

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