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DATA SHEET

DiI-LABELED LOW DENSITY LIPOPROTEIN, HUMAN

Catalog No: **YB-0011**

Lot No: **lot specific**

Quantity: **500ug**(micrograms)Protein/vial

Concentration: lot specific (mg/ml Protein)

Product Introduction:
Purified Yiyuan Biotechnologies LDL is labeled with the fluorescent probe, DiI, and reisolated by ultracentrifugation (1.019-1.063). The resultant product is exhaustively dialyzed against phosphate buffered saline, (pH 7.4), sterilized by membrane filtration and then aseptically packaged in a solution containing phosphate-buffered saline at pH 7.4 and 0.2 mM EDTA. Each lot is evaluated on a murine macrophage cell line for fluorescence uptake.

Storage & Stability:

DiI-LDL should be kept sterile at 2-8°C. ***NEVER FREEZE***. The stability of this product is in the 6 week range after receipt. Clarify by centrifugation if needed. Before using, spin the vial in a microfuge for 10 minutes over 5000g.

Typical Lipoprotein Labeling Protocol

1. Aseptically dilute the DiI-LDL to 10-40μg/ml in your culture media.
2. Add to live cells and incubate for 2-4 hours at 37°C.
3. Remove media containing DiI-LDL from your culture.
4. Wash cells several times with probe-free media.
5. A. Fluorescence Microscopy:

   Visualize using standard rhodamine excitation: emission filters (or suggested wavelengths excitation:emission at 554nm:571nm or near). If fixation is desired use 3% formaldehyde in PBS. (Never use methanol or acetone fixation - DiI is soluble in organic solvents). Note: A positive culture must be stained for comparison purposes.

   B. Cell Sorting:

Label as in steps 1-5. Trypsinize or treat cultures with EDTA to produce a single cell suspension. Use labeled pure cultures of positive and negative cell types to set gates on the cell sorter.

Suggested Wavelengths for Cell Sorting: Excitation: 554nm
Emission: 571nm

Special Note: All our LDL products have a natural tendency to aggregate. Aggregates of this product can interfere with its use. To clarify these aggregates out, simply spin in a microfuge for 2 minutes.

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