



DATA SHEET

Dil-VLDL

Very Low Density Lipoprotein labeled with 1,1'-dioctadecyl-3,3,3',3'-tetramethyl-indocarbocyanine perchlorate

Catalog No: YB-0014

Concentration: 5.5mg/ml (Protein)

Quantity: 1ml/vial

Lot No: 2023-08-31

Total Cholesterol : 23.5mmol/L

Triglyceride: 8.5 mmol/L

Product Preparation:

Purified YB VLDL is labeled with the fluorescent probe, Dil, and reisolated by ultracentrifugation ($d < 1.006$ g/mL). 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 0.1 mM EDTA- Na_2 .

Storage & Stability:

Dil -VLDL 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.

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Typical Lipoprotein Labeling Protocol

1. Aseptically dilute the Dil-VLDL to 10-50µg/ml in your culture media.
2. Add to live cells and incubate for 2-5 hours at 37°C.
3. Remove media containing Dil-VLDL 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). If fixation is desired use 3% formaldehyde in PBS. (Never use methanol or acetone fixation - Dil 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

Fixation and Mounting of Dil Labeled Cells

1. Wash 3 times in PBS.
2. Fix in 3% formaldehyde/PBS for 20 minutes at room temperature.
3. Rinse 5 seconds in distilled water at room temperature.
4. Drain liquid onto chem-wipe.
5. Invert cover, slip on a drop of 90% Glycerol and 10% PBS onto a microscope slide.
6. Seal with Kroenigs wax, also known as cover glass cement (Pfaltz & Bauer, Waterbury, CT 06708). Do not use nail polish. Store at -20°C.

***Special Note:** VLDL 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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