ExoStd™ BLCL21 Fluorescent Exosome Standard

(Green Fluorescent Exosomes from BLCL21 Cell Line; Cat# M1079-100; Store at -20°C)

I. Introduction:

Exosomes are small endosome derived lipid nanoparticles (50-120 nm) actively secreted by exocytosis by most living cells. Exosome release occurs either constitutively or upon induction, under both normal and pathological conditions, in a dynamic, regulated and functionally relevant manner. Both the amount and molecular composition of released exosomes depend on the state of a parent cell. Exosomes have been isolated from diverse cell lines (hematopoietic cells, tumor lines, primary cultures, and virus infected cells) as well as from biological fluids in particular blood (e.g. serum and plasma from cancer patients) and other body fluids (broncho alveolar lavage fluid, pleural effusions, synovial fluid, urine, amniotic fluid, semen, saliva etc).

BioVision offers **ExoStd™ Fluorescent Exosome Standard** for EV tracking in fluorescence microscopy experiments. Fluorescent exosomes are labeled with green dye, which provides a stable fluorescent labeling and are suitable for different applications providing a long-lasting well visible signal. Fluorescent exosomes are quantified for overall protein content and particle number and validated by Nanoparticles Tracking Analysis (NTA, NanoSight). One vial contains 100 µg of purified exosomes (measured as total protein content; number of particles in 100 µg: >1x10^{10}). The excitation maximum of fluorescent exosome standards is 500 nm-650 nm and emission maximum is 510 nm-665 nm.

II. Application:

- EV tracking in Fluorescence microscopy studies
- Flow cytometry
- Electron microscopy

III. Sample Type:

- Highly purified Exosomes available from BLCL21 Cell Line (EBV Transformed Lymphoblastoid B Cells)

IV. Package Content (Purified and Fluorescent Exosomes Standards from BLCL21 Cell Line):

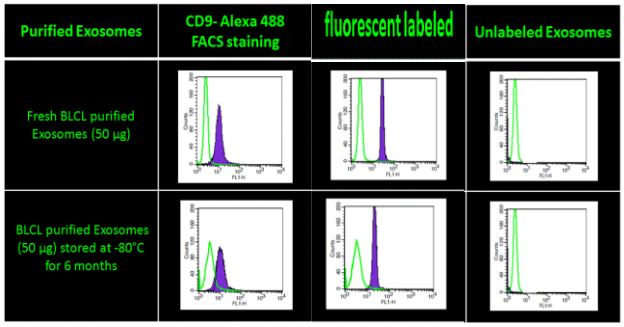
M1079-100	**1 vial (1 x 100 µg)**

V. Shipment and Storage:

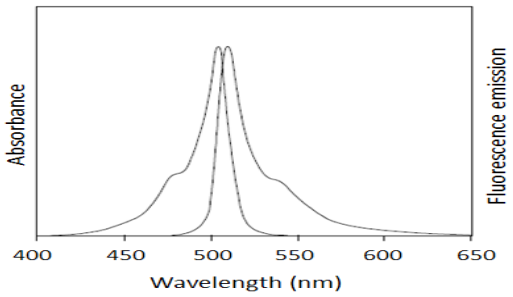
- Fluorescent labeled Exosomes are shipped in liquid form at controlled temperature (4°C) and must be stored at -20°C protected from light for approximately 6 months. Avoid repeated freeze-and-thaw cycles.

VI. Reproducibility:

A.



B.



Figures. A. FACS analysis of purified BLCL exosomes, CD9 Alexa488 labeled, Fluorescent Labeled and unlabeled. B. Absorption and corrected fluorescence emission spectrum of Fluorescent Exosome Standard. Excitation at 488 nm.

VI. Related Products:

Product Name & Catalog Number
ExoStd™ Plasma Fluorescent Exosome Standard (100 µg) # M1073-100
ExoStd™ Serum Fluorescent Exosome Standard (100 µg) # M1074-100
ExoStd™ Urine Fluorescent Exosome Standard (100 µg) # M1075-100
ExoStd™ Saliva Fluorescent Exosome Standard (100 µg) # M1076-100
ExoStd™ COLO1 Fluorescent Exosome Standard (100 µg) # M1077-100
ExoStd™ MM1 Fluorescent Exosome Standard (100 µg) # M1078-100
ExoStd™ BLCL21 Fluorescent Exosome Standard (100 µg) # M1079-100
ExoStd™ HCT116 Fluorescent Exosome Standard (100 µg) # M1083-100
ExoStd™ U87 MG Fluorescent Exosome Standard (100 µg) # M1084-100
ExoStd™ SK-N-SH Fluorescent Exosome Standard (100 µg) # M1085-100
ExoStd™ PC3 Fluorescent Exosome Standard (100 µg) # M1086-100
ExoStd™ BPH-1 Fluorescent Exosome Standard (100 µg) # M1087-100
ExoStd™ DAUDI Fluorescent Exosome Standard (100 µg) # M1088-100
ExoStd™ A549 Fluorescent Exosome Standard (100 µg) # M1089-100
ExoStd™ K-562 Fluorescent Exosome Standard (100 µg) # M1154-100
ExoStd™ B16F10 Fluorescent Exosome Standard (100 µg) # M1159-100

********All the Fluorescent Exosome Standards will be prepared fresh right after getting an order and shipped liquid at 4°C to you, but then it needs to be stored at -20°C.***

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