

Materials List for:

High-throughput Nitrobenzoxadiazole-labeled Cholesterol Efflux Assay

Roque Pastor-Ibáñez¹, Mireia Arnedo¹, Olivia Tort¹

¹Group of Genomics and Pharmacogenomics in HIV, Laboratory of Retrovirology and Viral Immunopathogenesis, IDIBAPS, Hospital Clínic de Barcelona

Correspondence to: Olivia Tort at otort@clinic.cat

URL: <https://www.jove.com/video/58891>

DOI: [doi:10.3791/58891](https://doi.org/10.3791/58891)

Materials

Name	Company	Catalog Number	Comments
96-well collecting plate	Corning Inc	Costar 3912	white 96-well plate with opaque clear bottom
96-well culture plate	Corning Inc	Costar 3610	white 96-well plate with flat clear bottom
<i>Cholesterol Efflux Assay Kit (Cell-based)</i>	Abcam	ab196985	commercial high-throughput cell-based assay kit aimed to determine the cholesterol efflux
colorless RPMI 1640	Sigma-Aldrich	R7509	RPMI 1640 with no pehnol-red
Gen5 Data Analysis Software	BioTek		Version 2.0
Glycine	Sigma-Aldrich	G8790-100G	Glycine, non-animal use
Luminometer	Biotek	SYNERGY HT	Multi-Detection Microplate Reader
Lysis Solution 1	in-house		50 mM Tris Buffer, 150 mM NaCl and H ₂ O
Lysis Solution 2	in-house		Pure ethanol and Cell Lysis Solution 1:1 (v:v)
NBD-cholesterol	Thermo-Fisher	N1148	22-(N-(7-Nitrobenz-2-Oxa-1,3-Diazol-4-yl)Amino)-23,24-Bisnor-5-Cholen-3 β -Ol
PBS	Sigma-Aldrich	P3813	Phosphate-buffered saline
PEG 8000	Sigma-Aldrich	202452-250G	polyethylene glycol
PMA	Sigma-Aldrich	79346	Phorbol 12-myristate B-acetate.
R10	in-house		RPMI 1640 supplemented with 10% fetal bovine serum and 5% Penicillin/Streptomycin.
RPMI 1640	Sigma-Aldrich	R8758	RPMI 1640 with 2 mM L-glutamine containing 1.5 g/L sodium bicarbonate and 4.5 g/L glucose
THP-1 cells	Sigma-Aldrich	ATCC, #TIB-202	monocyte-like line derived from leukemia from a one year old baby
Tween 80	Sigma-Aldrich	P1754	