

Materials List for:

A Simple Bioassay for the Evaluation of Vascular Endothelial Growth Factors

Steven A. Stacker¹, Michael M. Halford¹, Sally Roufail¹, Carol Caesar¹, Marc G. Achen¹

¹Tumour Angiogenesis Program, Peter MacCallum Cancer Centre

Correspondence to: Steven A. Stacker at Steven.Stacker@petermac.org

URL: <https://www.jove.com/video/53867>

DOI: [doi:10.3791/53867](https://doi.org/10.3791/53867)

Materials

Name	Company	Catalog Number	Comments
Trypan Blue	Sigma-Aldrich	T8154	0.4% solution in PBS is used 1:1 with cell suspensions to measure viable cells. Hazard-may cause cancer
G418 Sulphate (Geneticin)	Invivogen	ant-gn-5	Agent for selecting transfected eukaryotic cells. Hazard-may cause allergy or asthma symptoms or breathing difficulties.
³ H-Thymidine	PerkinElmer	NET-027	This radioactive nucleoside is incorporated into chromosomal DNA during mitosis. Hazard-radiation
Vialight Plus Kit	Lonza	LT07-221	Bioluminescent detection of cellular ATP to quantify viability, using ATP Monitoring Reagent
Prestoblue Cell Viability Reagent	Invitrogen	A13261	Resazurin-based indicator of cell viability. Turns red in color in the reducing environment of the cell
Nunc Minitray with Nunclon Delta Surface (72 well)	Thermo Scientific	136528	Small microtitre plate
96 well Tissue Culture Plate	Falcon, Corning Inc.	353072	
DMEM (1X)	Gibco	11965-92	
GlutaMAX (100X)	Gibco	35050-061	
Fetal Bovine Serum	Gibco	10099-141	
Cell Harvester	Tomtec Life Sciences		Tomtec Harvester, 96 Mach 3M Cell Harvester
Liquid Scintillation Counter	LKB Wallac	1205	LKB Wallac 1205 Betaplate Scintillation Counter
UniFilter-96 GF/B	Perkin Elmer	6005177	White 96-well Bares Microplate with GF/B filter of 1 µm poresize
Gentamicin	Gibco, Life Technologies	15750-060	
Penicillin/Streptomycin	Gibco, Life Technologies	15140-122	
0.22 µm pore cellulose acetate centrifuge tube filter unit	Costar, Corning Inc.	8160	Centrifuge tube filters have a 0.22 µm pore CA membrane-containing filter unit within a 500 µl capacity polypropylene microcentrifuge tube.
Fluorescence Reader	BioTek		BioTek Synergy 4 Hybrid Microplate Reader