

Materials List for:

Assessment of Oxidative Damage in the Primary Mouse Ocular Surface Cells/ Stem Cells in Response to Ultraviolet-C (UV-C) Damage

Bipasha Bose^{*1}, Saketh Kapoor^{*1}, Utsav Sen^{*1}, Muhammad Nihad¹, Debajit Chaudhury¹, Sudheer Shenoy P¹

¹Stem Cells and Regenerative Medicine Centre, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangaluru, Pincode-575018, Karnataka, India

*These authors contributed equally

Correspondence to: Bipasha Bose at bipasha.bose@yenepoya.edu.in

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Materials

Name	Company	Catalog Number	Comments
2',7'-Dichlorofluorescein diacetate (DCFDA)	Sigma	D6883	2',7'-Dichlorofluorescein diacetate is fluorogenic probe and is permeable to cells. It is used for quantification of reactive oxygen species.
Cell culture dish (35 mm)	Eppendorf	SA 003700112	Sterile dishes for culturing the cells.
DMEM High Glucose	HiMedia	AT007	Most widely used cell culture media, contains 4500 mg/L of glucose.
Fetal Bovine Serum, EU Origin	HiMedia	RM99955	One of the most important components of cell culture media. It provides growth factors, amino acids, proteins, fat-soluble vitamins such as A, D, E, and K, carbohydrates, lipids, hormones, minerals, and trace elements.
GlutMax	Gibco, Thermo Fisher Scientific	35050061	Used as a supplement and an alternative to L-glutamine. It helps in improving cell viability and growth.
HL-2000 Hybrilinker	UVP		Hybridization oven/UV cross linker
Hoechst 33342	Sigma	B2261	Hoechst stain is permeable to both live and dead cells. It binds to double stranded DNA irrespective of whether the cell is dead or alive.
Matrigel	Corning		Basement membrane matrix
MEM Non-Essential Amino Acids (100X)	Gibco, Thermo Fisher Scientific	11140050	Used as a supplement to increase the cell growth and viability.
Penicillin-Streptomycin (Pen-Strep)	Gibco, Thermo Fisher Scientific	15140122	Penicillin and streptomycin is used to prevent the bacterial contamination in culture.
Propidium Iodide	Sigma	P4170	Fluorescent dye which is only permeable to dead cells. It binds with DNA and helps in distinguishing between live and dead cells.
TrypLE Express	Thermo Fisher Scientific		Gentle cell dissociation agent
ZOE Fluorescent Cell Imager	Bio-rad		