

Materials List for:

Induction and Validation of Cellular Senescence in Primary Human Cells

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URL: <https://www.jove.com/video/57782>

DOI: [doi:10.3791/57782](https://doi.org/10.3791/57782)

Materials

Name	Company	Catalog Number	Comments
DMEM Media - GlutaMAX	Gibco	31966-047	
Fetal Bovine Serum	Hyclone	SV30160.03	
Penicillin-Streptomycin (P/S; 10,000 U/ml)	Lonza	DE17-602E	
Dimethyl Sulfoxide (DMSO)	Sigma-Aldrich	SC-202581	
Nuclease-Free Water (not DEPC-Treated)	Ambion	AM9937	
T75 flask	Sarstedt	833911002	
Trypsin/EDTA Solution	Lonza	CC-5012	
PBS tablets	Gibco	18912-014	
1.5 ml microcentrifuge tubes	Sigma-Aldrich	T9661-1000EA	
Corning 15 mL centrifuge tubes	Sigma-Aldrich	CLS430791	
6-well plate	Sarstedt	83.3920	
24-well plate	Sarstedt	83.3922	
13mm round coverslips	Sarstedt	83.1840.002	
Steriflip	Merck Chemicals	SCGP00525	
Cesium137-source			IBL 637 Cesium-137γ-ray machine
UV radiation chamber			Opsytec, Dr. Göbel BS-02
Doxorubicin dihydrochloride	BioAustralis Fine Chemicals	BIA-D1202-1	
Hydrogen peroxide solution	Sigma-Aldrich	7722-84-1	
5-aza-2'-deoxycytidine	Sigma-Aldrich	A3656	
SAHA	Sigma-Aldrich	SML0061	
Sodium Butyrate	Sigma-Aldrich	B5887	
X-gal (5-Bromo-4-chloro-3-indolyl-β-D-galactopyranoside)	Fisher Scientific	7240-90-6	
Citric acid monohydrate	Sigma-Aldrich	5949-29-1	
Sodium dibasic phosphate	Acros organics	7782-85-6	
Potassium ferrocyanide	Fisher Scientific	14459-95-1	
Potassium ferricyanide	Fisher Scientific	13746-66-2	
Sodium Chloride	Merck Millipore	7647-14-5	
Magnesium Chloride	Fisher Chemicals	7791-18-6	
25% glutaraldehyde	Fisher Scientific	111-30-8,7732-18-5	
16% formaldehyde (w/v)	Thermo-Fisher Scientific	28908	
EdU (5-ethynyl-2'-deoxyuridine)	Lumiprobe	10540	
Sulfo-Cyanine3 azide (Sulfo-Cy3-Azide)	Lumiprobe	D1330	

Sodium ascorbate	Sigma-Aldrich	A4034	
Copper(II) sulfate pentahydrate (Cu(II)SO ₄ ·5H ₂ O)	Sigma-Aldrich	209198	
Triton X-100	Acros organics	215682500	
TRIS base	Roche	11814273001	
LightCycler 480 Multiwell Plate 384, white	Roche	4729749001	
Lightcycler 480 sealing foil	Roche	4729757001	
Sensifast Probe Lo-ROX kit	Bioline	BIO-84020	
UPL Probe Library	Sigma-Aldrich	Various	
Human IL-6 DuoSet ELISA	R&D	D6050	
Bio-Rad TC20	Bio-Rad		
Counting slides	Bio-Rad	145-0017	
Dry incubator	Thermo-Fisher Scientific	Heratherm	
Dimethylformamide	Merck Millipore	1.10983	
Parafilm 'M' laboratory film	Bemis	#PM992	
Tweezers			
Needles			