

Materials List for

Detection of Post-Replicative Gaps Accumulation and Repair in Human Cells Using the DNA Fiber Assay

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Materials

Name	Company	Catalog Number	Comments
Acetic acid, Glacial	Synth	64-19-7	Alternatively, BSA - Biosera - REF PM-T1725/100
Ammonium hydroxide	Synth	1336-21-6	Or similar
Antibody anti-mouse IgG1 Alexa Fluor 594	Invitrogen	A11005	-
Antibody anti-rat Alexa Fluor 488	Invitrogen	A21470	-
Antibody Mouse anti-BrdU	Becton Dickinson	347580	-
Antibody Rat anti-BrdU	Abcam	Ab6326	-
Biological security hood	Pachane	PA 410	Use hood present in the laboratory
BSA (Bovine Serum Albumin)	Sigma-Aldrich	A3294	Or similar
Cell scraper	Thermo Scientific	179693	Or similar
CldU	Millipore-Sigma	C6891	-
Cloridric acid	Synth	7647-01-0	Or similar
Confocal Zeiss LSM Series (7, 8 or 9)	Zeiss	-	Or similar
Cover glass (or coverslips)	Thermo Scientific	152460	Alternatively, Olen - Kasvi Cover Glass (24 x 60 mm) - K5-2460
DMEM - High Glucose	LGC/Gibco	BR30211-05/12100046	Use culture media specific for the cell line used.
EDTA (Ethylenediaminetetraacetic acid disodium salt dihydrate)	Sigma-Aldrich	E5314	Or similar
Epifluorescence Microscope Axiovert 200	Zeiss	-	Or similar
FBS (Fetal Bovine Serum)	Gibco	12657-029	Or similar
Forma Series II Water Jacketed CO2 Incubator	Thermo Scientific 3110	13-998-074	Use cell incubator present in the laboratory
Glass slide jar	Sigma-Aldrich	S5516	Or similar
Glycerol	Sigma-Aldrich	56-81-5	Or similar
IdU	Millipore-Sigma	I7125	-

Magnesium Chloride	Synth	7791-18-6	Or similar
Methanol	Merck	67-56-1	Or similar
Microscope slides	Denville	M1021	Alternatively, Olen - Kasvi Microscope Slides - K5-7105 OR Precision Glass Line - 7105-1
MOPS (Ácido 3-morfolinopropano 1-sulfônico)	Synth	1132-61-2	Or similar
Nocodazole	Sigma-Aldrich	31430-18-9	-
PBS (Phosphate Buffer Saline)	Life Thechnologies	3002	Or similar
Penicillin-Streptomycin	Gibco	15140122	Or similar
ProLong Gold AntiFade Mountant	Invitrogen	P36930	Any antifade moutant solution for immunofluorescence could be used
S1 nuclease purified from <i>Aspergillus oryzae</i>	Invitrogen	18001-016	Pre-dilute the S1 nuclease (1/100 - 1/200) in S1 nuclease dilution buffer provided by the manufacturer, aliquote and store at -20 °C
SDS (Sodium Dodecyl Sulfate)	BioRad	161-0302	Or similar
Sodium Acetate Trihydrate	Sigma-Aldrich	6131-90-4	Or similar
Sodium Chloride	Synth	7647-14-5	Or similar
Sucrose	Sigma-Aldrich	57-50-1	Or similar
Tris Base	West Lab Research	BP152-1	Or similar
Triton X-100	Synth	9002-93-1	Or similar
Trypsin	Gibco	25200072	Or similar
Tween 20	Sigma-Aldrich	P1379	Or similar
UVC Lamp	Non Specific	-	Essential: emission lenght of 254 nm
VLX-3W UV Radiometer	Vilber Loumart	-	Or similar
Zinc Acetate	Sigma-Aldrich	557-34-6	Or similar