

Materials List for:

Semi-quantitative Detection of RNA-dependent RNA Polymerase Activity of Human Telomerase Reverse Transcriptase Protein

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Materials

Name	Company	Catalog Number	Comments
Dulbecco's modified Eagle's medium (DMEM)	Wako	044-29765	
Fetal bovine serum (FBS)	CORNING	35-010-CV	
Penicillin-Streptomycin mixed solution	nacalai tesque	26253-84	
Trypsin-Ethylenediaminetetraacetic acid (EDTA) solution	nacalai tesque	32777-44	
Phosphate buffered saline (PBS(-))	Wako	166-23555	
Thymidine	nacalai tesque	07147-61	
Nocodazole	Sigma	M1404	
Dimethyl sulfoxide (DMSO)	nacalai tesque	08904-85	
Sodium chloride	nacalai tesque	31333-45	
Tris(hydroxymethyl)aminomethane	nacalai tesque	35434-21	
Hydrochloric acid	nacalai tesque	18321-05	
Nonidet P-40 (NP-40)	nacalai tesque	25223-04	
Pierce Protein A Plus Agarose	Thermo scientific	22812	
2-[4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic acid (HEPES)	nacalai tesque	17514-15	
Potassium hydroxide	Wako	168-21815	
Potassium acetate	nacalai tesque	28405-05	
Magnesium chloride hexahydrate (MgCl ₂ ·6H ₂ O)	Wako	135-00165	
Glycerol	nacalai tesque	17045-65	
Polyoxyethylene(10) octylphenyl ether (Triton X-100)	Wako	169-21105	
cOmplete, EDTA-free	Roche Applied Science	11 873 580 001	
Calcium chloride dihydrate (CaCl ₂ ·2H ₂ O)	nacalai tesque	06731-05	
Micrococcal nuclease (MNase)	Takara Bio	2910A	
Ethylene glycol bis (b-aminoethylether)-N,N,N',N'-tetraacetic acid (EGTA)	nacalai tesque	15214-92	
3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonat (CHAPS)	nacalai tesque	07957-64	

Dithiothreitol (DTT)	nacalai tesque	14128-91	
rCTP, rATP, rUTP, rGTP, 100mM each	Promega	E6000	
[α - ³² P]UTP (3,000 Ci/mmol)	PerkinElmer	NEG507H	Use fresh RI for the assay
RNase inhibitor	TOYOBO	SIN-201	
Proteinase K	Takara	9033	
Acid-Phenol:Chloroform, pH 4.5 (with IAA, 125:24:1)	Life Technologies	AM9720	
3 M Sodium acetate	NIPPON GENE	316-90081	
Ethanol (99.5)	nacalai tesque	14713-95	
Dr. GentLE Precipitation Carrier	Takara Bio	9094	
RNase One Ribonuclease	Promega	M4265	
Sodium dodecyl sulfate (SDS)	nacalai tesque	02873-75	
Formamide, deionized	nacalai tesque	16345-65	
Ethylenediaminetetraacetic Acid Disodium Salt Dihydrate (EDTA)	nacalai tesque	15130-95	
Orange G	nacalai tesque	25401-22	
CO2 incubator	e.g., ASTEC	SCA-325DRS	
Centrifuge	e.g., TOMY	EX-135	For step B)
Micro refrigerated centrifuge	e.g., KUBOTA	3740	For step 6.2
Sonicator	Qsonica	Q125	Set a microtip (#4422) on the sonicator, for step 6.4
Micro refrigerated centrifuge	e.g., TOMY	MX-305	For step 6.5
Cooled incubator	e.g., Panasonic	MIR-154-PJ	Set a rotary shaker inside
Rotary shaker	e.g., TAITEC	RT-5	
Cooled incubator	e.g., TAITEC	BR-43FL	Set a shaker "MINI WAVE" inside, for step 7.7
MINI WAVE	AS ONE	WEV-03	A shaker for steps 7.7, 8.5 and 8.6
Incubator	e.g., TAITEC	HB-80	Set a shaker "MINI WAVE" inside, for step 8.5 and 8.6
Block incubator	e.g., ASTEC	BI-516S	