

Non-Radioactive In Vitro Cardiac Myosin Light Chain Kinase Assays

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Materials

Name	Company	Catalog Number	Comments
30% acrylamide/Bis solution	Bio-Rad	1610156	Store at 4°C
acrylamide	Bio-Rad	1610156	Store at 4°C
Amicon Ultra-15	Merck	UFC901008	
ammonium persulfate	Wako	019-03435	
ampicillin sodium	Wako	014-23302	Store at -20°C
BugBuster	Milipore	71456-4	Store at 4°C
CaCl ₂	Wako	031-00435	
CHAPS	Dojindo	349-04722	Store at 4°C
chemiluminescence imaging analyzer TriStar2	CBERTHOLD TECHNOLOGIES	LB942-A	
dithiothreitol	Wako	047-08973	Store at -20°C
ECL (Enhanced Chemi Luminescence) reagent	GE Healthcare	RPN2106	Mix reagent 1 and reagent 2 in equal amounts
EDTA	DOJINDO	345-01865	
Ethanol	Wako	057-00456	
FBS	Sigma-Aldrich	172012-500ML	Store at -20°C
FLAG agarose	Merck	A2220	Store at -20°C
FLAG peptide	Merck	F3290-4MG	Store at 4°C
GateWay pEF-DEST51 Vector	Invitrogen	12285011	Store at -20°C
glycine	Sigma-Aldrich	12-1210-5	
HEPES	Dojindo	342-01375	
Igепal CA-630 (NP40)	Sigma-Aldrich	13021-500ML	
Imiadasole	Wako	095-00015	
L-(+)-Arabinose	Sigma-Aldrich	A3256-25G	Store at -20°C
LAS-4000	GE Healthcare	28955810	

LB	Merck	WM841485 824	
Lipofectamine 2000	Invitrogen	11668-019	
Manganese (II) Chloride Tetrahydrate	Wako	134-15302	
MgCl ₂	nacalai-tesque	20909-42	
N, N, N', N'-tetramethylethylenediamin	Wako	110-18-9	
NaCl	Wako	191-01665	
OneShot BL21 AI	Invitrogen	44-0184	Store at -80°C
OptiMEM	gibco	31985-070	Store at 4°C
PBS	NISSUI PHARMACEUTICAL	5913	Store at 4°C
penicillin streptomycin	gibco	15140-122	Store at -20°C
pENTR/D-TOPO Cloning Kit	Invitrogen	K240020	Store at -20°C
Phos-tag Acrylamide	Wako	AAL-107	Store at 4°C
Promega ADP-Glo	Promega	V9104	Store at -20°C
protease inhibitor cock-tail	nacalai-tesque	25955-11	
PVDF membrane	Merck	IPVH00010	Pore size : 0.45 µm
QIAEX II Gel Extraction Kit (150)	QIAGEN	20021	
SDS	Wako	191-07145	
sodium phosphate	Wako	192-02815	
TALON affinity resin	TaKaRa	635504	Store at 4°C
Tris	Sigma-Aldrich	T1503-1KG	
Tween 20	Wako	167-11515	Store at 4°C
Ultra Pure Agarose	Invitrogen	16500-500	
Ultra Pure ATP, 100mM	Promega	V703B-C	Store at -20°C
Urea	Sigma-Aldrich	U0631-1KG	