

Materials List for:

Colorimetric Detection of Bacteria Using Litmus Test

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Materials

Name	Company	Catalog Number	Comments
Ethylenediaminetetraacetic acid (EDTA)	VWR AMRESCO	0105	
Sodium Hydroxide (NaOH) pellets	BIO BASIC CANADA INC.	SB6789	
Tris-base	VWR AMRESCO	0497	
Boric acid	AMRESCO	0588	
Urea	VWR AMRESCO	M123	
40% acrylamide/bisacrylamide (29:1) solution	BIO BASIC CANADA INC.	A0007	
Sucrose	Bioshop Canada inc.	SUC507	
Bromophenol blue	Bioshop Canada inc.	BRO777	
Xylenecyanol FF	SIGMA-ALDRICH	X-4126	
10% sodium dodecyl sulfate	Bioshop Canada inc.	SDS001	
Hydrochloric Acid (HCl)	CALEDON LABORATORIES LTD	6026	
Sodium Chloride (NaCl)	Bioshop Canada inc.	SOD001	
4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	Bioshop Canada inc.	HEP001	
Magnesium Chloride (II) hexahydrate	VWR AMRESCO	0288	
Tween 20	Bioshop Canada inc.	TW508	
Adenosine Triphosphate (ATP)	AMRESCO	0220	
Sodium Acetate trihydrate (NaOAc)	SIGMA-ALDRICH	S8625	
Ethanol	Commercial Alcohols	P016EAA	
Tetramethylethylenediamine (TEMED)	AMRESCO	0761	
10% Ammonium persulfate (APS)	BIO BASIC CANADA INC.	AB0072	
Succinimidyl 4-(N-maleimidomethyl) cyclohexane-1-carboxylate (SMCC)	ThermoFisher SCIENTIFIC	22360	
Dimethyl sulfoxide (DMSO)	CALEDON LABORATORIES	803540	
Urease	SIGMA-ALDRICH	U0251	
1x Phosphate Buffered Saline (PBS)	ThermoFisher SCIENTIFIC	70011-069	
0.04% Phenol red	SIGMA-ALDRICH	P3532	
10x T4 polynucleotide kinase reaction buffer	Lucigen	30061-1	
10x T4 DNA ligase reaction buffer	Bio Basics Canada	B1122-B	

T4 DNA ligase (5 U/μl)	Thermo Fischer Scientific	B1122	
Luria Bertani (LB) Broth	AMRESCO	J106	
Agar	AMRESCO	J637	
T4 polynucleotide kinase (10 U/μl)	Lucigen	30061-1	
<i>E. coli</i> K12 (MG1655)	ATCC	ATCC700926	
Centrifuge	Beckman Coulter, Inc.	392187	
Glass plates	CBS scientific	ngp-250nr	
0.75 mm thick spacers	CBS scientific	VGS-0725r	
12-well comb	CBS scientific	VGC-7512	
UV Lamp	UVP	95-0017-09	
Spectrophotometer (NanoVue)	GE Healthcare	N/A	
Metal plate	CBS scientific	CPA165-250	
Vortex	VWR International	58816-123	
Gel electrophoresis apparatus	CBS scientific	ASG-250	
Petri dishes	VWR International	25384-342	
100 kDa MWCO centrifugal filters	EMD Millipore	UFC510024	
Magnetic Bead (BioMag)	Bangs Laboratories Inc	BM568	
Magnetic Separation Rack	New England BioLabs	S1506S	
Microfuge tubes	Sarstedt	72.69	
Syringe filter (0.22 μm)	VWR International	28145-501	
14 ml culture tube	VWR International	60818-725	
Cell culture incubator	Eppendorf Scientific	M13520000	
Branson Ultrasonic cleaner	Branson	N/A	
Camera (Canon Powershot G11)	Canon	N/A	
50 ml conical tube	VWR International	89004-364	