

Materials List for:

# Total Protein Extraction and 2-D Gel Electrophoresis Methods for *Burkholderia* Species

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## Materials

Name	Company	Catalog Number	Comments
<b>Reagents</b>			
Phenylmethanesulfonyl fluoride (PMSF)	Sigma	P7626	Toxic, corrosive
Acetone	Fisher	A18-1	Flammable
PBS Buffer	Bioscience	R028	
Ethylenediaminetetraacetic acid (EDTA)	Fisher	BP118-500	toxic
Glass beads (0.1 mm)	BioSpec Products	11079101	
Nalgene Oak Ridge Centrifuge tubes, polycarbonate (50 ml)	VWR	21009-342	
MicroBCA protein extraction kit	Pierce	23235	
Microcentrifuge Tubes 2.0 ml conical Screw cap Tubes with Cap and O-Ring	Fisher	02-681-375	
2-D Clean-Up kit	GE Healthcare	80-6484-51	
Urea	Invitrogen	15505-050	Irritant
CHAPS	Amersham Biosciences	17-1314-01	
Dithiothreitol (DTT)	MPBiomedical, LCC	856126	Irritant
Immobiline DryStrips pH 4-7 24 cm	Amersham Biosciences	176002-46	
Duracryl	Proteomic Solutions	80-0148	Very toxic, carcinogen
Ammonium persulfate	Fisher	BP179-100	Flammable, toxic, corrosive
N,N,N',N'-tetramethylethylenediamine (TEMED)	Invitrogen	15524-010	Flammable
Sodium dodecyl sulfate (SDS)	Fisher	BP166-500	Acute toxicity, flammable
Agarose	Invitrogen	15510-027	
Ethanol	Fisher	HC1100-1GL	Flammable, toxic
Acetic acid	Fisher	A491-212	Flammable, corrosive
Glutaraldehyde	Fisher	G151-1	Very toxic, corrosive, dangerous for the environment
Potassium tetrathionate	Sigma	P2926	Irritant
Sodium acetate	EM Science	7510	
Silver nitrate	Sigma	209139	Corrosive, dangerous for the environment
Formaldehyde	Sigma	252549	Toxic
Sodium thiosulfate	Sigma	S7026	
Tris Base	EMD	9230	

Glycine	MPBiomedical, LCC	808831	
Glycerol	MPBiomedical, LCC	800688	
Methanol	Fisher	A412-4	Flammable, toxic, health hazard
Sodium carbonate anhydrous	EMD	SX0400-3	Toxic
Mineral oil	ACROS	415080010	
<b>Equipment</b>			
JA-20 ultracentrifuge rotor	Beckman Coulter	334831	
Mini Beadbeater	Biospec Products	3110BX	
Ettan IPGphor II Isoelectric Focusing System and accessories	GE Healthcare	80-6505-03	<a href="http://www.amershambiosciences.com">www.amershambiosciences.com</a>
Ettan DALT Large Vertical electrophoresis system	GE Healthcare	80-6485-27	<a href="http://www.amershambiosciences.com">www.amershambiosciences.com</a>