

Materials List for:

# A Comparative Analysis of Recombinant Protein Expression in Different Biofactories: Bacteria, Insect Cells and Plant Systems

Elisa Gecchele<sup>\*1</sup>, Matilde Merlin<sup>\*1</sup>, Annalisa Brozzetti<sup>2</sup>, Alberto Falorni<sup>2</sup>, Mario Pezzotti<sup>1</sup>, Linda Avesani<sup>1</sup>

<sup>1</sup>Department of Biotechnology, University of Verona, Verona, Italy

<sup>2</sup>Department of Internal Medicine, University of Perugia, Perugia, Italy

\*These authors contributed equally

Correspondence to: Linda Avesani at [linda.avesani@univr.it](mailto:linda.avesani@univr.it)

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## Materials

Name	Company	Catalog Number	Comments
Yeast extract	Sigma	Y1333	
Tryptone	Formedium	TRP03	
Agar Bacteriological Grade	Applichem	A0949	
Sf-900 II SFM medium	Gibco	10902-088	
Grace's Insect Medium, unsupplemented	Gibco	11595-030	
Cellfectin II Reagent	Invitrogen	10362-100	
MS medium including vitamins	Duchefa Biochemie	M0222	
Sucrose	Duchefa Biochemie	S0809	
Plant agar	Duchefa Biochemie	P1001	
Ampicillin sodium	Duchefa Biochemie	A0104	Toxic
Gentamycin sulphate	Duchefa Biochemie	G0124	Toxic
Ganciclovir	Invitrogen	I2562-023	
Carbenicillin disodium	Duchefa Biochemie	C0109	Toxic
Kanamycin sulfate	Sigma	K4000	Toxic
Rifampicin	Duchefa Biochemie	R0146	Toxic – 25 mg/ml stock in DMSO
Streptomycin sulfate	Duchefa Biochemie	S0148	Toxic
Spectinomycin dihydrochloride	Duchefa Biochemie	S0188	
IPTG (isopropil-β-D-1-thiogalattopiranoside)	Sigma	I5502	Toxic
MES hydrate	Sigma	M8250	
MgCl <sub>2</sub>	Biochemical	436994U	
Acetosyringone	Sigma	D134406	Toxic – 0.1 M stock in DMSO
Syringe (1 ml)	Terumo		
MgSO <sub>4</sub>	Fluka	63136	
BAP (6-Benzylaminopurine)	Sigma	B3408	Toxic
NAA (Naphtalene acetic acid)	Duchefa Biochemie	N0903	Irritant
Cefotaxime	Mylan Generics		
Trizma base	Sigma	T1503	Adjust pH with 1 N HCl to make Tris-HCl buffer
HCl	Sigma	H1758	Corrosive
NaCl	Sigma	S3014	1 M stock
KCl	Sigma	P9541	

Na <sub>2</sub> HPO <sub>4</sub>	Sigma	S7907	
KH <sub>2</sub> PO <sub>4</sub>	Sigma	P9791	
PMSF (Phenylmethanesulfonyl fluoride)	Sigma	P7626	Corrosive, toxic
Urea	Sigma	U5378	
β-mercaptoethanol	Sigma	M3148	Toxic
Tween-20	Sigma	P5927	
Hepes	Sigma	H3375	
DTT (Dithiothreitol)	Sigma	D0632	Toxic – 1 M stock, store at -20 °C
CHAPS	Duchefa Biochemie	C1374	Toxic
Plant protease inhibitor cocktail	Sigma	P9599	Do not freeze/thaw too many times
SDS (Sodium dodecyl sulphate)	Sigma	L3771	Flammable, toxic, corrosive – 10% stock
Glycerol	Sigma	G5516	
Brilliant Blue R-250	Sigma	B7920	
Isopropanol	Sigma	24137	Flammable
Acetic acid	Sigma	27221	Corrosive
Anti-Glutamic acid decarboxylase 65/67	Sigma	G5163	Do not freeze/thaw too many times
Horseradish peroxidase (HRP)- conjugate anti-rabbit antibody	Sigma	A6154	Do not freeze/thaw too many times
Sf9 Cells	Life Technologies	11496	
BL21 Competent <i>E. coli</i>	New England Biolabs	C2530H	
Protein A Sepharose	Sigma	P2545	
Cell culture plates	Sigma	CLS3516	
Radio Immuno Assay kit	Techno Genetics	12650805	Radioactive material