

Materials:**1) Chemicals and Enzymes**

Chemicals/Enzymes	Company name
Ampicillin	Sisco Research Laboratories Pvt. Ltd.
kanamycin	Sisco Research Laboratories Pvt. Ltd.
Chloramphenicol	Sisco Research Laboratories Pvt. Ltd.
Luria Bertani broth	HiMedia labs
Luria Bertani agar	HiMedia labs
Hektoen Enteric agar (HE agar)	HiMedia labs
anaero-gas-pack	HiMedia labs
DMEM	HiMedia labs
RPMI	HiMedia labs
foetal bovine serum	HiMedia labs
Glycerol	Central drug house (CDH), India
<i>FD HindIII</i> and <i>FD BamHI</i>	Thermo Scientific, USA
Isopropyl- β -d-thiogalactopyranoside (IPTG)	Sisco Research Laboratories Pvt. Ltd.
Eva-green PCR master-mix	BioRad
Ficoll-Paque	HiMedia labs
lysis buffer	Sigma
sodium nitrate	Sisco Research Laboratories Pvt. Ltd.
Xylose	Sisco Research Laboratories Pvt. Ltd.
crystal violet	Sisco Research Laboratories Pvt. Ltd.
D-glucose	Sisco Research Laboratories Pvt. Ltd.
Ni-HRP probe	Thermo Scientific, USA
Agarose	Amresco, USA
TAE Buffer	GeNei, India
GeneRuler 100 bp ladder	Thermo Scientific, USA
GeneRuler 1 Kb ladder	Thermo Scientific, USA
DreamTaq PCR Master Mix (2X)	Qiagen, Germany

2) Kits

Kits	Company name
HiPurA DNA isolation kit	HiMedia labs
NucleoSpin Gel and PCR Clean-up kit	Macherey-Nagel
GeneJET Plasmid Miniprep kit	Thermo Scientific, USA
RevertAid first strand cDNA synthesis kit	Thermo Scientific, USA
T4 DNA ligation kit	Puregene, USA

3) Scientific equipments

Equipment	Company name
Vertical autoclave	Narang scientific works Ltd. (India)
Nanodrop Spectrophotometer	Thermo Scientific, USA
-20°C Deep Freezer	Vestfrost Solutions, Denmark
Gel documentation system	Syngene, USA
Mini horizontal Electrophoresis apparatus	Genei Technologies, India
Laminar flow	Esco, USA
Thermal cycler	Biometra -T Personal, Germany
Micropipettes and Pipettes	Thermo scientific, USA
Centrifuge machines	Hermle
Waterbath	Remi RSB-12
pH meter	Genei technologies, India
Spinix vortexer	Tarson, India
Vertical gel electrophoresis apparatus	Tarsons
Trans-Blot® SD -Semi-Dry Transfer Cell	Bio-Rad
Dancing shaker	Tarsons
Ligation bath	Thermocon
Electroporator and cuvettes	Bio-Rad