



Biotechnology Kit Contents

Funded by a grant from the Genentech Foundation for Biomedical Sciences

Equipment	Amt
gel boxes	12
additional gel trays and combs	12
power supplies	6
20 μ l micropipettes	12
box of 20 μ l tips	12
thermometers	3
colored lab tape	6 rolls
waterproof pens	12
gloves	2 boxes
cheesecloth	1 yd
disposable pipettes	3/gp
1.5 ml microtubes	20/gp
0.5 ml microtubes	3/gp
floating tube racks	4
microtube racks	12
safety manual	1
laboratory manual	1
evaluation forms	1 packet
UV transilluminator	1
camera	1
film	1/gp
carboy	1
DynaChill cooler	1
microcentrifuge (<i>if requested</i>)	1
water baths (<i>if requested</i>)	2

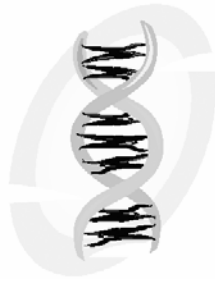
Chemicals Provided:

BamHI
EcoRI
HindIII
2X restriction buffer
0.1 μ g/ μ l λ DNA
10% SDS
set of 6 dyes
10X TBE
loading dye
agarose solution with SYBR[®] Safe

Experiments Performed:

Micropipet Technique
Gel Electrophoresis of Dyes
Restriction Enzyme Analysis





Transformation Kit Contents

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Equipment	Amt
1,000 ul tip boxes	12
1,000 ul micropipette	12
instructor micropipette	2
disposable loops	12
microtubes	1 box
microtube rack	12
floating tube rack	3
colored pens	12
squirt bottles	6
thermometer	1
Parafilm	1 box
DynaChill cooler	1
waterbath	1
incubator	1
gloves	2 boxes
safety manual	1
laboratory manual	1
evaluation forms	1 packet

Chemicals Provided:

LB plates
LB + AMP plates
CaCl₂
E. coli MM294 streak plates
Luria broth
pGREEN

Experiment Performed:

Bacterial Transformation with
Green Fluorescent Protein





PCR Kit Contents

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Equipment	Amt
dual gel boxes	2
power supply	1
gel trays and combs	4
20 μ l micropipettes	12
100 μ l micropipettes	12
200 μ l micropipette	1
box of tips	12
microcentrifuge	1
heat block with 2 inserts	1
thermocycler	1
microtube racks	12
PCR tube racks	12
UV transilluminator	1
Fotodyne Mini Visionary	1
Dyna chill cooler	1
disposable transfer pipets	2/grp
waterproof pens	12
gloves	3 boxes
1.5 ml microtubes	6/grp
PCR tubes and lids	2/grp
cap locks	2/grp
carboy	2
safety manual	1
laboratory manual	1
evaluation forms	1 pkg
informed consent sheet	master copy
thermal cycler grid sheet	master copy

Chemicals Provided:

5% Chelex
Master Mix
Primer Mix
Sterile water
Loading dye
2.0% agarose with SYBR[®] Safe
100 bp ladder

Experiment Performed:

Polymerase Chain Reaction –
Amplification of an *Alu* insert

