CONTENTS

ABBREVIATIONS

(a) Buffers/Chemicals/Enzymes/Reagents

APS	ammonium persulphate
ATP	adenosine triphosphate
BSA	bovine serum albumin
DNA	deoxyribonucleic acid
DMF	dimethylformamide
DNase I	deoxyribonuclease I
dNTP	deoxynucleoside triphosphate
DTT	dithiothreitol
EDTA	ethylenediaminetetraacetic acid (disodium salt)
EtBr	ethidium bromide
EtOH	ethanol
FSB	final sample buffer
IPTG	isopropyl-β-D-thiogalactopyranoside
NaCl	sodium chloride
PMSF	phenylmethanesulfonylfluoride
RNA	ribonucleic acid
RNase A	ribonuclease A
SCFSB	single colony final sample buffer
SDS	sodium dodecyl sulphate
TAE	Tris-acetate-EDTA buffer
TBE	Tris-borate-EDTA buffer
TE	Tris-EDTA buffer
TEMED	NNN′N′- tetramethylethylenediamine
TM	Tris-magnesium buffer
Tris	tris (hydroxymethyl) amino ethane
X-gal	5-bromo-4-chloro-3-indolyl-β-D galactoside

(b) Antibiotics

Ap	ampicillin
Cm	chloramphenicol
Km	kanamycin
Tc	tetracycline

(c) Units

bp	base pair
^{o}C	degree Celsius
Da	dalton
g	gram
hr	hour
kb	kilobase pairs (10^3 bp)
kDa	kilodalton

l	litre
M	molar
mA	milliampere
min	minutes
mg	milligram
μg	microgram
ml	millilitre
μl	microlitre
mol	moles
nm	nanometer
rpm	revolutions per minute
sec	seconds
V	volts

(d) Amino acids and genetic code

A	Ala	alanine	GCT, GCC, GCA, GCG
C	Cys	cysteine	TGT, TGC
D	Asp	aspartic acid	GAT, GAC
E	Glu	glutamic acid	GAA, GAG
F	Phe	phenylalanine	TTT, TTC
G	Gly	glycine	GGT, GGC, GGA, GGG
H	His	histidine	CAT, CAC
I	Ile	isoleucine	ATT, ATC, ATA
K	Lys	lysine	AAA, AAG
L	Leu	leucine	TTG, TTA, CTT, CTC, CTA, CTG
M	Met	methionine	ATG
N	Asn	asparagine	AAT, AAC
P	Pro	proline	CCT, CCC, CCA, CCG
Q	Gln	glutamine	CAA, CAG
R	Arg	arginine	CGT, CGC, CGA, CGG, AGA, AGG
S	Ser	serine	TCT, TCC, TCA, TCG, AGT, AGC
T	Thr	threonine	ACT, ACC, ACA, ACG
V	Val	valine	GTT, GTC, GTA, GTG
W	Trp	tryptophan	TGG
Y	Tyr	tyrosine	TAT, TAC

(e) Genotype and phenotype

Xer^+	strain proficient in Xer site-specific recombination
Xer^-	strain deficient in Xer site-specific recombination
argR$^-$	*argR* null mutant

(f) Miscellaneous

~	approximately
i.e.	(Latin *id est*) that is to say, in other words
LB	Luria-Bertani
MW	molecular weight
OD_x	optical density at x nm
ori	origin of replication
ORF	open reading frame
%	percentage
PAGE	polyacrylamide gel electrophoresis
Tn	transposon
UV	ultra violet
(v/v)	volume to volume ratio
WT	wild-type
(w/v)	weight to volume ratio
X^r	resistance to X
X^s	sensitivity to X