APPENDIX 1

TEST SYSTEM CODE WORDS

Appendix 1. Test system code words

End-point[a]	Code	Definition
		NON-MAMMALIAN SYSTEMS
		Prokaryotic systems
D	PRB	Prophage, induction, SOS repair test, DNA strand breaks, cross-links or related damage
D	ECB	*Escherichia coli* (or *E. coli* DNA), DNA strand breaks, cross-links or related damage; DNA repair
D	SAD	*Salmonella typhimurium*, DNA repair-deficient strains, differential toxicity
D	ECD	*Escherichia coli pol* A/W3110-P3478, differential toxicity (spot test)
D	ECL	*Escherichia coli pol* A/W3110-P3478, differential toxicity (liquid suspension test)
D	ERD	*Escherichia coli rec* strains, differential toxicity
D	BSD	*Bacillus subtilis rec* strains, differential toxicity
D	BRD	Other DNA repair-deficient bacteria, differential toxicity
G	BPF	Bacteriophage, forward mutation
G	BPR	Bacteriophage, reverse mutation
G	SAF	*Salmonella typhimurium*, forward mutation
G	SA0	*Salmonella typhimurium* TA100, reverse mutation
G	SA2	*Salmonella typhimurium* TA102, reverse mutation
G	SA3	*Salmonella typhimurium* TA1530, reverse mutation
G	SA4	*Salmonella typhimurium* TA104, reverse mutation
G	SA5	*Salmonella typhimurium* TA1535, reverse mutation
G	SA7	*Salmonella typhimurium* TA1537, reverse mutation
G	SA8	*Salmonella typhimurium* TA1538, reverse mutation
G	SA9	*Salmonella typhimurium* TA98, reverse mutation
G	SAS	*Salmonella typhimurium* (other miscellaneous strains), reverse mutation
G	ECF	*Escherichia coli* exclusive of strain K12, forward mutation
G	ECK	*Escherichia coli* K12, forward or reverse mutation
G	ECW	*Escherichia coli* WP2 *uvr*A, reverse mutation
G	EC2	*Escherichia coli* WP2, reverse mutation
G	ECR	*Escherichia coli* (other miscellaneous strains), reverse mutation
G	BSM	*Bacillus subtilis*, multigene test
G	KPF	*Klebsiella pneumoniae*, forward mutation
G	MAF	*Micrococcus aureus*, forward mutation

[a] Endpoints are grouped within each phylogenetic category as follows: A, aneuploidy; C, chromosomal aberrations; D, DNA damage, F, assays of body fluids; G, gene mutation; H, host-mediated assays; I, inhibition of intercellular communication; M, micronuclei; P, sperm morphology; R, mitotic recombination or gene conversion; S, sister chromatid exchange; T, cell transformation

Appendix 1 (contd)

End-point[a]	Code	Definition
		NON-MAMMALIAN SYSTEMS (contd)
		Lower eukaryotic systems
D	SSB	*Saccharomyces* species, DNA strand breaks, cross-links or related damage
D	SSD	*Saccharomyces* species, DNA repair-deficient strains, differential toxicity
D	SZD	*Schizosaccharomyces pombe*, DNA repair-deficient strains, differential toxicity
R	SCG	*Saccharomyces cerevisiae*, gene conversion
R	SCH	*Saccharomyces cerevisiae*, homozygosis by mitotic recombination or gene conversion
R	SZG	*Schizosaccharomyces pombe*, gene conversion
R	ANG	*Aspergillus nidulans*, genetic crossing-over
G	SCF	*Saccharomyces cerevisiae*, forward mutation
G	SCR	*Saccharomyces cerevisiae*, reverse mutation
G	SGR	*Streptomyces griseoflavus*, reverse mutation
G	STF	*Streptomyces coelicolor*, forward mutation
G	STR	*Streptomyces coelicolor*, reverse mutation
G	SZF	*Schizosaccharomyces pombe*, forward mutation
G	SZR	*Schizosaccharomyces pombe*, reverse mutation
G	ANF	*Aspergillus nidulans*, forward mutation
G	ANR	*Aspergillus nidulans*, reverse mutation
G	NCF	*Neurospora crassa*, forward mutation
G	NCR	*Neurospora crassa*, reverse mutation
G	PSM	*Paramecium* species, mutation
C	PSC	*Paramecium* species, chromosomal aberrations
A	SCN	*Saccharomyces cerevisiae*, aneuploidy
A	ANN	*Aspergillus nidulans*, aneuploidy
A	NCN	*Neurospora crassa*, aneuploidy
		Plant systems
D	PLU	Plants, unscheduled DNA synthesis
G	ASM	*Arabidopsis* species, mutation
G	HSM	*Hordeum* species, mutation
G	TSM	*Tradescantia* species, mutation
G	PLM	Plants (other), mutation
S	VFS	*Vicia faba*, sister chromatid exchange
S	PLS	Plants (other), sister chromatid exchange
M	TSI	*Tradescantia* species, micronuclei
M	PLI	Plants (other), micronuclei
C	ACC	*Allium cepa*, chromosomal aberrations
C	HSC	*Hordeum* species, chromosomal aberrations
C	TSC	*Tradescantia* species, chromosomal aberrations
C	VFC	*Vicia faba*, chromosomal aberrations
C	PLC	Plants (other), chromosomal aberrations

Appendix 1 (contd)

End-point[a]	Code	Definition
		NON-MAMMALIAN SYSTEMS (contd)
		Insect systems
R	DMG	*Drosophila melanogaster*, genetic crossing-over or recombination
G	DMM	*Drosophila melanogaster*, somatic mutation (and recombination)
G	DMX	*Drosophila melanogaster*, sex-linked recessive lethal mutations
C	DMC	*Drosophila melanogaster*, chromosomal aberrations
C	DMH	*Drosophila melanogaster*, heritable translocation test
C	DML	*Drosophila melanogaster*, dominant lethal test
A	DMN	*Drosophila melanogaster*, aneuploidy
		MAMMALIAN SYSTEMS
		Animal cells in vitro
D	DIA	DNA strand breaks, cross-links or related damage, animal cells *in vitro*
D	RIA	DNA repair exclusive of unscheduled DNA synthesis, animal cells *in vitro*
D	URP	Unscheduled DNA synthesis, rat primary hepatocytes
D	UIA	Unscheduled DNA synthesis, other animal cells *in vitro*
G	GCL	Gene mutation, Chinese hamster lung cells exclusive of V79 *in vitro*
G	GCO	Gene mutation, Chinese hamster ovary cells *in vitro*
G	G9H	Gene mutation, Chinese hamster lung V79 cells, *hprt* locus
G	G90	Gene mutation, Chinese hamster lung V79 cells, ouabain resistance
G	GML	Gene mutation, mouse lymphoma cells exclusive of L5178Y *in vitro*
G	G5T	Gene mutation, mouse lymphoma L5178Y cells, TK locus
G	G51	Gene mutation, mouse lymphoma L5178Y cells, all other loci
G	GIA	Gene mutation, other animal cells *in vitro*
S	SIC	Sister chromatid exchange, Chinese hamster cells *in vitro*
S	SIM	Sister chromatid exchange, mouse cells *in vitro*
S	SIR	Sister chromatid exchange, rat cells *in vitro*
S	SIS	Sister chromatid exchange, Syrian hamster cells *in vitro*
S	SIT	Sister chromatid exchange, transformed animal cells *in vitro*
S	SIA	Sister chromatid exchange, other animal cells *in vitro*
M	MIA	Micronucleus test, animal cells *in vitro*
C	CIC	Chromosomal aberrations, Chinese hamster cells *in vitro*
C	CIM	Chromosomal aberrations, mouse cells *in vitro*
C	CIR	Chromosomal aberrations, rat cells *in vitro*
C	CIS	Chromosomal aberrations, Syrian hamster cells *in vitro*
C	CIT	Chromosomal aberrations, transformed animal cells *in vitro*
C	CIA	Chromosomal aberrations, other animal cells *in vitro*
A	AIA	Aneuploidy, animal cells *in vitro*
T	TBM	Cell transformation, BALB/c 3T3 mouse cells
T	TCM	Cell transformation, C3H 10T1/2 mouse cells
T	TCS	Cell transformation, Syrian hamster embryo cells, clonal assay
T	TFS	Cell transformation, Syrian hamster embryo cells, focus assay

Appendix 1 (contd)

End-point[a]	Code	Definition
		MAMMALIAN SYSTEMS (contd)
		Animal cells in vitro *(contd)*
T	TPM	Cell transformation, mouse prostate cells
T	TCL	Cell transformation, other established cell lines
T	TRR	Cell transformation, RLV/Fischer rat embryo cells
T	T7R	Cell transformation, SA7/rat cells
T	T7S	Cell transformation, SA7/Syrian hamster embryo cells
T	TEV	Cell transformation, other viral enhancement systems
T	TVI	Cell transformation, treated *in vivo*, scored *in vitro*
		Human cells in vitro
D	DIH	DNA strand breaks, cross-links or related damage, human cells *in vitro*
D	RIH	DNA repair exclusive of unscheduled DNA synthesis, human cells *in vitro*
D	UHF	Unscheduled DNA synthesis, human fibroblasts *in vitro*
D	UHL	Unscheduled DNA synthesis, human lymphocytes *in vitro*
D	UHT	Unscheduled DNA synthesis, transformed human cells *in vitro*
D	UIH	Unscheduled DNA synthesis, other human cells *in vitro*
G	GIH	Gene mutation, human cells *in vitro*
S	SHF	Sister chromatid exchange, human fibroblasts *in vitro*
S	SHL	Sister chromatid exchange, human lymphocytes *in vitro*
S	SHT	Sister chromatid exchange, transformed human cells *in vitro*
S	SIH	Sister chromatid exchange, other human cells *in vitro*
M	MIH	Micronucleus test, human cells *in vitro*
C	CHF	Chromosomal aberrations, human fibroblasts *in vitro*
C	CHL	Chromosomal aberrations, human lymphocytes *in vitro*
C	CHT	Chromosomal aberrations, transformed human cells *in vitro*
C	CIH	Chromosomal aberrations, other human cells *in vitro*
A	AIH	Aneuploidy, human cells *in vitro*
T	TIH	Cell transformation, human cells *in vitro*
		Body fluid and host-mediated assays
F	BFA	Body fluids from animals, microbial mutagenicity
F	BFH	Body fluids from humans, microbial mutagenicity
H	HMA	Host-mediated assay, animal cells in animal hosts
H	HMH	Host-mediated assay, human cells in animal hosts
H	HMM	Host-mediated assay, microbial cells in ahimal hosts
		Animals in vivo
D	DVA	DNA strand breaks, cross-links or related damage, animal cells *in vivo*
D	RVA	DNA repair exclusive of unscheduled DNA synthesis, animal cells *in vivo*
D	UPR	Unscheduled DNA synthesis, rat hepatocytes *in vivo*
D	UVC	Unscheduled DNA synthesis, hamster cells *in vivo*
D	UVM	Unscheduled DNA synthesis, mouse cells *in vivo*

Appendix 1 (contd)

End-point[a]	Code	Definition
		MAMMALIAN SYSTEMS (contd)
		Animals in vivo *(contd)*
D	UVR	Unscheduled DNA synthesis, other rat cells *in vivo*
D	UVA	Unscheduled DNA synthesis, other animal cells *in vivo*
G	GVA	Gene mutation, animal cells *in vivo*
G	MST	Mouse spot test
G	SLP	Mouse specific locus test, postspermatogonia
G	SLO	Mouse specific locus test, other stages
S	SVA	Sister chromatid exchange, animal cells *in vivo*
M	MVM	Micronucleus test, mice *in vivo*
M	MVR	Micronucleus test, rats *in vivo*
M	MVC	Micronucleus test, hamsters *in vivo*
M	MVA	Micronucleus test, other animals *in vivo*
C	CBA	Chromosomal aberrations, animal bone-marrow cells *in vivo*
C	CLA	Chromosomal aberrations, animal leucocytes *in vivo*
C	CCC	Chromosomal aberrations, spermatocytes treated *in vivo*, spermatocytes observed
C	CGC	Chromosomal aberrations, spermatogonia treated *in vivo*, spermatocytes observed
C	CGG	Chromosomal aberrations, spermatogonia treated *in vivo*, spermatogonia observed
C	COE	Chromosomal aberrations, oocytes or embryos treated *in vivo*
C	CVA	Chromosomal aberrations, other animal cells *in vivo*
C	DLM	Dominant lethal test, mice
C	DLR	Dominant lethal test, rats
C	MHT	Mouse heritable translocation test
A	AVA	Aneuploidy, animal cells *in vivo*
T	TVI	Cell transformation, treated *in vivo*, scored *in vitro*
		Humans in vivo
D	DVH	DNA strand breaks, cross-links or related damage, human cells *in vivo*
D	UBH	Unscheduled DNA synthesis, human bone-marrow cells *in vivo*
D	UVH	Unscheduled DNA synthesis, other human cells *in vivo*
S	SLH	Sister chromatid exchange, human lymphocytes *in vivo*
S	SVH	Sister chromatid exchange, other human cells *in vivo*
M	MVH	Micronucleus test, human cells *in vivo*
C	CBH	Chromosomal aberrations, human bone-marrow cells *in vivo*
C	CLH	Chromosomal aberrations, human lymphocytes *in vivo*
C	CVH	Chromosomal aberrations, other human cells *in vivo*
A	AVH	Aneuploidy, human cells *in vivo*
		Test systems not shown on activity profiles
D	BID	Binding (covalent) to DNA *in vitro*
D	BIP	Binding (covalent) to RNA or protein *in vitro*

Appendix 1 (contd)

End-point[a]	Code	Definition
		Test systems not shown on activity profiles (contd)
D	BVD	Binding (covalent) to DNA, animal cells *in vivo*
D	BVP	Binding (covalent) to RNA or protein, animal cells *in vivo*
D	BHD	Binding (covalent) to DNA, human cells *in vivo*
D	BHP	Binding (covalent) to RNA or protein, human cells *in vivo*
I	ICR	Inhibition of intercellular communication, animal cells *in vitro*
I	ICH	Inhibition of intercellular communication, human cells *in vitro*
P	SPF	Sperm morphology, F1 mice *in vivo*
P	SPM	Sperm morphology, mice *in vivo*
P	SPR	Sperm morphology, rats *in vivo*
P	SPH	Sperm morphology, humans *in vivo*