



**ANTHRACENE,
2-BROMOPROPANE,
BUTYL METHACRYLATE,
AND DIMETHYL
HYDROGEN PHOSPHITE**

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OF CARCINOGENIC HAZARDS
TO HUMANS

LIST OF ABBREVIATIONS

2-AAF	2-acetylaminofluorene
AC ₅₀	half-maximal activity concentration
AEGL	acute exposure guideline level
AhR	aryl hydrocarbon receptor
AOAC	Association for Official Analytical Collaboration
AR	androgen receptor
AUC	area under the curve
BALF	bronchoalveolar lavage fluid
B[a]P	benzo[<i>a</i>]pyrene
bw	body weight
CAR	constitutive androstane receptor
CAS	Chemical Abstracts Service
CAT	catalase
CCME	Canadian Council of Ministers of the Environment
CHO	Chinese hamster ovary
CI	confidence interval
CRM	certified reference material
CYP	cytochrome P450
DCFH-DA	2',7'-dichlorodihydrofluorescein diacetate
DMBA	7,12-dimethylbenz[<i>a</i>]anthracene
DMSO	dimethyl sulfoxide
DNEL	derived no-effects level
dUTP	deoxyuridine phosphate
dw	dry weight
ECETOC	European Centre for Ecotoxicology and Toxicology of Chemicals
ECHA	European Chemicals Agency
EGR-1	early growth response protein 1
EI	electron impact ionization
ELISA	enzyme-linked immunosorbent assay
ER	estrogen receptor
ERE	estrogen-responsive element
EROD	ethoxyresorufin- <i>O</i> -deethylase
EU	European Union
FLD	fluorescence detection

FSH	follicle-stimulating hormone
fw	fresh weight
GC	gas chromatography
GC-ECD	gas chromatography-electron capture detection
GC-FID	gas chromatography-flame ionization detection
GC-MS	gas chromatography-mass spectrometry
GC-MS/MS	gas chromatography-tandem mass spectrometry
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GJIC	gap junction intercellular communication
GLP	Good Laboratory Practice
GPx	glutathione peroxidase
GR	glucocorticoid receptor
GSH	glutathione
GSR	glutathione reductase
GST	glutathione S-transferase
HPBMC	human peripheral blood mononuclear cells
HPLC	high-performance liquid chromatography
HPV18	human papillomavirus type 18
HS-SPME	headspace solid-phase microextraction
HUVEC	human umbilical vein endothelial cell
IL-6	interleukin 6
IQR	interquartile range
KOSHA	Korean Occupational Safety and Health Agency
LC	liquid chromatography
LH	luteinizing hormone
LHRH	luteinizing hormone-releasing hormone
LLE-PTV-GC-MS	liquid-liquid extraction and programmed temperature vapourizer-gas chromatography-mass spectrometry
LOD	limit of detection
LOED	lowest observed effective dose
LOQ	limit of quantification
LPO	lipid peroxidation
MAPK	mitogen-activated protein kinase
3-MC	3-methylcholanthrene
MDA	malondialdehyde
MNNG	<i>N</i> -methyl- <i>N'</i> -nitro- <i>N</i> -nitrosoguanidine
MROD	methoxyresorufin <i>O</i> -demethylase
MS	mass spectrometry
NAD	nicotinamide adenine dinucleotide
NADP	nicotinamide adenine dinucleotide phosphate
NADPH	nicotinamide adenine dinucleotide phosphate, reduced form
NIOSH	National Institute for Occupational Safety and Health
NOES	National Occupational Exposure Survey
NR	not reported
NRF2	nuclear factor erythroid 2-related factor 2
NTP	National Toxicology Program
ODC	ornithine decarboxylase
OECD	Organisation for Economic Co-operation and Development
OEL	occupational exposure level
OSHA	Occupational Safety and Health Administration

PAH	polycyclic aromatic hydrocarbon
PGE ₂	prostaglandin E ₂
PM	particulate matter
PPAR	peroxisome proliferator-activated receptor
PTK	protein tyrosine kinase
PUFA	polyunsaturated fatty acids
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
ROS	reactive oxygen species
RT-PCR	reverse transcription-polymerase chain reaction
S9	9000 × g supernatant
SCE	sister-chromatid exchange
SD	standard deviation
SERCA	sarcoendoplasmic reticulum calcium ATPase
SHE	Syrian hamster embryo
SIC	standard industrial classification
SIM	selected-ion monitoring
SOD	superoxide dismutase
SPME	solid-phase microextraction
TCDD	2,3,7,8-tetrachlorodibenzo- <i>para</i> -dioxin
TK	thymidine kinase
TPA	12- <i>O</i> -tetradecanoylphorbol-13-acetate
TWA	time-weighted average
UDS	unscheduled DNA synthesis
US	United States
USA	United States of America
US EPA	United States Environmental Protection Agency
UV	ultraviolet
VE-cadherin	vascular endothelial cadherin
v/v	volume per volume
w/w	weight per weight
ZO-1	zona occludens-1

