

LIST OF ABBREVIATIONS

3T3 NRU PT	Neural red uptake phototoxicity test using mouse fibroblast cell line 3T3
ATCC	American Type Culture Collection
BMBF	German Ministry of Education and Research
BM-DBM	Butyl methoxy-dibenzoylmethane
BfR	Federal Institute for Risk Assessment
CER	Ceramides
CEREB	Cerebrosides
CHOL	Cholesterol
CHOL SO ₄	Cholesterol sulphate
CPZ	Chlorpromazine
CV	Coefficient of variation
COLIPA	Cosmetic Toiletry and Perfumery Association
DMEM	Dulbecco's Modified Eagle's Medium
DMSO	Dimethyl sulphoxide
ECVAM	European Centre for Validation of Alternative Methods
ELISA	Enzyme-linked immuno-sorbent assay
EMEA	European Medicine Evaluation Agency
EtOH	Ethanol
ESAC	ECVAM Scientific Advisory Committee
ET 50	Time-point at which viability of cells (tissues) is reduced to 50 %
FFA	Free fatty acids
GLM	General linear model
H&E	Hematoxylin-Eosin
H3D PT	Human skin model phototoxicity test
HP TLC	High performance thin layer chromatography
IC 50	Concentration at which viability of cells (tissues) is reduced to 50 %
IL	Interleukin
Irr +	Irradiated
Irr -	Non-irradiated
MPE	Mean photo-effect
MTT	3-(4, 5-dimethylthiazolyl)-2, 5-diphenyltetrazolium bromide
NBCS	New-born calf serum
NC	Negative control
NR	Neutral Red (3-amino-7-dimethylamino-2-methylphenazine hydrochloride)

OD	Optical density
OD ₅₇₀	Optical density measured at 570 nm
OECD	Organisation for Economic Co-operation and Development
OECD TG	OECD Test guideline
PBS	Phosphate-buffered saline
PC	Positive control
PIF	Photo irritation factor
RHE	Reconstructed human epidermis
ROS	Reactive oxidative species
SB	Stratum basale
SC	Stratum corneum
SD	Standard deviation
SDS	Sodium dodecyl sulphate
SG	Stratum granulosum
SL	Stratum lucidum
SOP	Standard Operating Procedure
SS	Stratum spinosum
TG	Triglycerides
TER	Transcutaneous electrical resistance
TEER	Transepidermal electrical resistance
TEWL	Trans-epidermal water loss
UV	Ultraviolet
UVA	Part of the UV light (320-400nm)
+ UVA	Irradiated by UVA
- UVA	Non-irradiated by UVA
ZEBET	Centre for Documentation and Evaluation of Alternative Methods to Animal Experiments
kΩ	kiloOhm
#	Number