

# Abbreviations Table - Statement on the safety of Titanium Dioxide (E171) as a Food Additive

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ABCs      Aberrant crypts

ACF      Aberrant Crypt Foci

A(ChE)      Acetyl Cholinesterase

ADME      Absorption, Distribution, Metabolism and Excretion

ADI      Acceptable Daily Intake

AGD      Anogenital Distance

ANS      Additives and Nutrient Sources

ANSES      Agency for Food, Environmental and Occupational Health and Safety

AOP      Adverse Outcome Pathway

AUC      Area under the curve

BET      Brunauer-Emmett-Teller

BSA	Bovine serum albumin
CA	Chromosome aberration
CAC	Colitis Associated Cancer
CEA	Commissariat à l'énergie atomique et aux énergies alternatives
COM	Committee on the Mutagenicity of chemicals in Food, Consumer Products and the Environment
COT	Committee on the Toxicity of chemicals in Food, Consumer Products and the Environment
COX	Cyclooxygenase
CRAMP	cathelin-related antimicrobial peptide
CY	Cyclophosphamide
DC	Dendritic cells
DLS	Dynamic Light Scattering
DMH	dimethylhydrazine
DNSIYC	Diet and Nutrition Survey of Infants and Young Children
EAT	Exposure Assessment Team
EC	European Commission

ECHA	European Chemicals Agency
EDM-HSI	Enhanced darkfield microscopy with hyperspectral imaging
EDTA	Ethylenediaminetetraacetic acid
EDX	Energy-dispersive X-ray
EFSA	European Food Safety Authority
ELISA	enzyme-linked immunosorbent assay
EOGRT	Extended One Generation Reproductive Toxicity
ER	Endoplasmic Reticulum
EU	European Union
FACS	Fluorescence-Activated Cell Sorting
FAF	The Panel on Food Additives and Flavourings
FAO	Food and Agriculture Organisation
FBS	Fetal bovine serum
FSA	Food Standards Agency
FSANZ	Food Standards Australia New Zealand
GALT	Gut-associated lymphoid tissue

GD	Gestation Day
GFAP	Glial Fibrillary Acidic Protein
GI	Gastrointestinal
GIT	Gastrointestinal Tract
GLP	Good Laboratory Practice
GM-CSF	Granulocyte Macrophage - Colony Stimulating Factor
GSH	Glutathione
HBGV	Health-based Guidance Value
hprt	hypoxanthine phosphorybosyl transferase
IARC	International Agency for Research on Cancer
ICAM	Intercellular Adhesion Molecule
ICP-AES	Inductively coupled plasma - atomic emission spectrometry
ICP-MS	Inductively coupled plasma mass spectrometry
IEL	intraepithelial lymphocytes
IFN	Interferon
IgM	Immunoglobulin M

IL	Interleukin
INRS	Institut National de la Recherche et de Securite
i.v.	intravenous
JECFA	Joint FAO/WHO Expert Committee on Food Additives
JRC	Joint Research Council
KLH	Keyhole limpet haemocyanin
LOD	Limit of Detection
LOQ	Limit of Quantification
MCHC	mean corpuscular hemoglobin concentration
MCV	Mean corpuscular volume
MN	Micronucleus
MPLs	Maximum Permitted Levels
NCI	National Cancer Institute
NDNS	National Diet and Nutrition Survey
NK	Natural killer
NMs	Engineered Nanomaterials

NOAEL	No Observed Adverse Effect Level
NPs	Nanoparticles
NRCWE	The National Research Centre for the Working Environment
NTP	US National Toxicology Program
OECD	The Organisation for Economic Co-operation and Development
OECD WPMN	OECD Working Party on Manufactured Nanomaterials
pg	pigment grade
PLYz	P-lysozyme
POD	Point of Departure
PSLT	Poorly Soluble Low Toxicity
PND	Postnatal Day
QS	Quantum Satis
RAG	Red, amber, green
RBC	Red blood cell
REG	regenerating islet-derived protein
RIVM	Dutch National Institute for Public Health and the Environment

ROS	Reactive Oxygen Species
SCF	Scientific Committee on Food
SCCS	EU Scientific Committee on Consumer Safety
SD	Sprague Dawley
SDF	Stromal Cell-Derived Factor
SEM	Scanning Electron Microscopy
SOD	Superoxide dismutase
spICP- HRMS	single particle ICP-high resolution MS
STEM	Scanning Transmission Electron Microscopy
TBARS	thiobarbituric acid reactive substances
TDMA	Titanium Dioxide Manufacturers Association
TEM	Transmission Electron Microscopy
TG	Test Guideline
TGF	Transforming Growth Factor
TLR	Toll-Like Receptor
TNF	Tumour Necrosis Factor



uf	ultrafine
WBC	White blood cell
WHO	World Health Organisation
XSDC	X-ray scanning disc centrifuge