

Fifth draft statement on the safety of Titanium Dioxide (E171) as a Food Additive- Annex B

In this guide

[In this guide](#)

1. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Introduction](#)
2. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Executive Summary](#)
3. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Exposure Assessment](#)
4. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Methodology of the COT review](#)
5. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Physicochemical Characterisation of nano grade TiO₂](#)
6. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Studies used to review the toxicokinetics and absorption of the E171 form of TiO₂](#)
7. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- EFSA review and conclusions on ADME of TiO₂](#)
8. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Summary of the EOGRT study \(LPT, 2020\)](#)
9. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Results](#)
10. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Studies using the E171 form of TiO₂ \(in mice\)](#)
11. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- COM review and conclusions](#)
12. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Reproductive and developmental studies using the nanoparticle form of TiO₂](#)

13. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Neurotoxicity](#)
14. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Annex B](#)
15. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Annex C](#)
16. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Annex D](#)
17. [Fifth draft statement on the safety of Titanium Dioxide \(E171\) as a Food Additive- Annex E](#)

Committee on the Toxicity of Chemicals in Food, Consumer Products and the Environment.

Third draft statement on the safety of Titanium Dioxide (E171) as a Food Additive - Annex B

1. The search terms

- ○ Search "In Vitro Techniques"[Mesh] OR "Caco-2 Cells"[Mesh] OR "Lysosomes"[Mesh] OR "Hypoxanthine Phosphoribosyltransferase"[Mesh] OR "Autopsy"[Mesh] OR "Micronucleus Tests"[Mesh] OR "Pathology"[Mesh] OR Autops*[tiab] OR histopath*[tiab] OR "in vivo"[tiab] OR "in vitro"[tiab] OR GALT[tiab] OR Caco 2 cell*[tiab] OR Colonic Epithelial Cell*[tiab] OR Colorectal epithelial cell*[tiab] OR Comet assay*[tiab] OR HPRT[tiab] OR "Hypoxanthine Phosphoribosyltransferase"[tiab] OR "hypoxanthin phosphoribosyl transferase"[tiab] OR Lysosom*[tiab] OR "M cell"[tiab] OR "M cells"[tiab] OR "Microfold cell"[tiab] OR "Microfold cells"[tiab] OR Micronucleus assay*[tiab] OR Micronucleus test*[tiab] OR "read across"[tiab] OR SCGE assay*[tiab] OR single-cell gel electrophoresis assay*[tiab] OR "xanthine guanine phosphoribosyl transferase"[tiab] OR "xanthine guanine phosphoribosyltransferase"[tiab] OR xpirt[tiab] AND titanium dioxide (322; 19)
- ○ Search "Aneugens"[Mesh] OR "Aneuploidy"[Mesh] OR "apoptosis"[Mesh] OR "Chromatids"[Mesh] OR "Chromosomes"[Mesh] OR "DNA Damage"[Mesh] OR "DNA Repair"[Mesh] OR "Mutagens"

[Pharmacological Action] OR "Mutagens"[Mesh] OR
"Mutagenesis"[Mesh] OR "Oxidative Stress"[Mesh] OR Aneugen*[tiab]
OR Aneuploid*[tiab] OR Chromatid*[tiab] OR Chromosome*[tiab] OR
Clastogen*[tiab] OR "DNA binding"[tiab] OR DNA fragmentation*[tiab]
OR DNA damage*[tiab] OR "DNA lesion"[tiab] OR "DNA lesions"[tiab] OR
"DNA repair" [tiab] OR genotox*[tiab] OR mutagen*[tiab] OR
Mutat*[tiab] OR oxidative stress*[tiab] AND titanium dioxide (209; 16)

- ○ (Titanium dioxide AND Nanoparticles AND E171 AND toxicology) (1);
(Titanium dioxide AND Nanoparticles AND E171 AND genotoxicity) (8);
(Titanium dioxide AND Nanoparticles AND E171 AND human health)
(13); (Titanium dioxide AND Nanoparticles AND E171 AND adverse
effects) (7); (Titanium dioxide AND Nanoparticles AND E171 AND
reproductive toxicity) (5); (Titanium dioxide AND Nanoparticles AND
E171 AND developmental toxicity) (2); (Titanium dioxide AND
Nanoparticles AND E171 AND Distribution) (8); (Titanium dioxide AND
Nanoparticles AND E171 AND Metabolism) (4); (Titanium dioxide AND
Nanoparticles AND E171 AND Excretion) (1); (Titanium dioxide AND
Nanoparticles AND E171 AND ADME) (1); (Titanium dioxide AND
Nanoparticles AND E171 AND immunotoxicology) (0); (Titanium dioxide
AND Nanoparticles AND E171 AND neurotoxicology) (0).