

# Literature Search - Review of EFSA Opinion

## In this guide

### [In this guide](#)

1. [Introduction - Review of EFSA Opinion](#)
2. [Titanium Dioxide - Background](#)
3. [EFSA Re-Assessment of Titanium Dioxide \(E 171\), 2021](#)
4. [Detailed breakdown on studies considered by EFSA](#)
5. [EOGRT Study - Review of EFSA Opinion](#)
6. [Aberrant Crypt Foci Examination in Satellite F0 Animals \(EOGRT Study\)](#)
7. [Overall EFSA conclusion on ACF - Review of EFSA Opinion](#)
8. [EFSA's Concluding remarks - Review of EFSA Opinion](#)
9. [Literature Search - Review of EFSA Opinion](#)
10. [Studies on TiO<sub>2</sub> Nanoparticles - Review of EFSA Opinion](#)
11. [Further Considerations for Titanium Dioxide - Review of EFSA Opinion](#)
12. [Summary - Review of EFSA Opinion](#)
13. [Questions for the Committee - EFSA Opinion Review](#)
14. [References - Review of EFSA Opinion](#)

**This is a paper for discussion.**

**This does not represent the views of the Committee and should not be cited.**

234. A number of studies available in the literature were assessed by the Panel in addition to the extended one-generation reproduction toxicity (EOGRT) study. No E171 studies were identified in the literature search with reliability scores of 1 or 2. No effects were reported up to a dose of 1,000 mg/kg bw per day for titanium dioxide containing a fraction of nanoparticles, the highest dose tested in the EOGRT study. Several studies using TiO<sub>2</sub> Nanoparticles <30 nm were reported. These are detailed below and summarised in Annex B. These were

included for additional information and may be relevant with respect to whether a minimum limit for particle size should be included in the EU specifications for E 171 however EFSA considered these of limited relevance to the safety of E171.