

ASPARTAME, METHYLEUGENOL, AND ISOEUGENOL

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This publication represents the views and expert opinions of an IARC Working Group on the Identification of Carcinogenic Hazards to Humans, which met in Lyon, France, 6–13 June 2023

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OF CARCINOGENIC HAZARDS
TO HUMANS

ANNEX 4. SUPPLEMENTARY MATERIAL FOR SECTION 4, HIGH-THROUGHPUT IN VITRO TOXICITY SCREENING DATA EVALUATION

These supplementary online-only tables (available from: <https://publications.iarc.who.int/627>) contain summaries of the findings (including the assay name, the corresponding key characteristic, the resulting “hit calls” both positive and negative, and any reported caution flags) for those chemicals evaluated in the present volume that have been tested in high-throughput screening assays performed by the United States Environmental Protection Agency (US EPA) and the United States National Institutes of Health. The results were generated by the Working Group using the software “kc-hits” (key characteristics of carcinogens – high-throughput screening discovery tool) available from <https://gitlab.com/i1650/kc-hits.git> (Reisfeld et al., 2022), using the US EPA Toxicity Forecaster (ToxCast) assay data and the curated mapping of key characteristics to assays available at the time of the evaluations performed for *IARC Monographs* Volume 134. Data were available for aspartame, methyleugenol, and isoeugenol.

Please report any errors to imo@iarc.who.int.

1. Aspartame: ToxCast/Tox21 assay results mapped to the key characteristics of carcinogens
2. Methyleugenol: ToxCast/Tox21 assay results mapped to the key characteristics of carcinogens
3. Isoeugenol: ToxCast/Tox21 assay results mapped to the key characteristics of carcinogens

Reference

Reisfeld B, de Conti A, El Ghissassi F, Benbrahim-Tallaa L, Gwinn W, Grosse Y, et al. (2022). kc-hits: a tool to aid in the evaluation and classification of chemical carcinogens. *Bioinformatics*. 38(10):2961–2. doi:[10.1093/bioinformatics/btad189](https://doi.org/10.1093/bioinformatics/btad189) PMID:[35561175](https://pubmed.ncbi.nlm.nih.gov/35561175/)