

## Position statement

January 2024, version 2.0

## Position statement on reduction, refinement, replacement of animal testing

### Background

Givaudan is committed to the safety of its products and fully supports the principle of the 3Rs (replacement, reduction and refinement) and invests in the development of replacement of animal testing. However, animal testing may be required to meet global regulatory authority requirements, where no non-animal alternative tests are available. For example, some national chemical regulations require the generation of animal test data in order to register raw materials for commercial use, in order to support the safety of chemicals for workers and consumers.

### Company position

- Givaudan does not perform or sponsor any animal testing on Fragrance & Beauty or Taste & Wellbeing compounds (mixture of blended raw materials).
- Animal testing will not be conducted for purposes of cosmetics safety assessment.
- Givaudan will not sponsor research projects by third party organisations that would conduct animal testing as part of a sponsored project.
- Where required by regulation, or requested specifically by a government agency, and where no option for alternative testing exists, Givaudan will conduct animal testing, but only after exhausting all other options.

### Givaudan activities in the replacement of animal testing

Givaudan is a lead contributor from our industry to the development of alternatives to animal testing.



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Givaudan has actively contributed and led the development of six alternative test methodologies:

- KeratinoSens® assay, developed by Givaudan has been widely published and was validated by OECD in 2015 for skin sensitisation;
- kinetic Direct Peptide Reactivity Assay (kDPRA) to assess skin sensitisation developed by Givaudan in 2016 is the (OECD 442C);
- ‘defined approaches on skin sensitisation (OECD 497)’ that combine the following three methods: DPRA; KeratinoSens®; and h-CLAT. It is called a 2-out-of-3 methodology. Givaudan was a key contributor and promoted the methodology.

In addition to the work in skin sensitisation; Givaudan has contributed significantly to the development of environmental safety test methodologies. Three new methods were developed by Givaudan which were then validated by OECD: OECD 319a, 319B (for bioaccumulation) and 249 (for fish toxicity).

Givaudan participates to setting the standard for the industry and to meet global regulatory challenges. Our dedicated research team in the Science & Technology department continues to invest and lead research in this area. We will further strengthen our advocacy efforts by communicating our progress to national authorities and collaborating with organisations that promote alternative non-animal testing approaches.

Regulatory Affairs and Product Safety F&B  
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