

Guidelines for Submission of Data to NICEATM

Data submitted as a **tab delimited (txt) document, comma separated value (csv) document, or Microsoft Excel spreadsheet (xls or xlsx)** is preferred. Under some circumstances, NICEATM will accept data in study report documents that need extraction. Please contact us (niceatm@niehs.nih.gov) to discuss these submissions.

Data submission should include the following information where applicable. Structured data tables with the details listed below as separate columns are preferred.

Chemical information (for all assay data types):

- Chemical name
- CASRN or other identifier (where applicable)
- SMILES
- Substance type (e.g. formulation or active ingredient)
- Physicochemical properties and source of data (if available)

Assay information: As many protocol details as possible should be provided, including relevant information such as dosing regimen, time of effect observation, vehicle, positive control, etc. This requirement applies to both in vivo and in vitro studies. If necessary, protocol details may be provided in a separate document from the spreadsheet or text file used to submit the data. Where appropriate, please cite test guideline, publication, or other reference on which the protocol is based.

In vivo data:

- Species, strain of the test organism
- Sex, age of test organism
- Route of administration
- Doses tested
- Number of animals per dose group
- Test measurements and results (e.g., LEL or LC/LC50 and confidence interval or treatment-related effects observed; as appropriate, and including units)
- Concurrent measurements and results (clinical findings, toxicokinetics, etc.)
- For developmental studies, gestational or parturition date of maternal sacrifice

In vitro data:

- Assay system (cite reference)
- Cell type (if applicable)
- Species of cell type (if applicable)
- Assay endpoint(s)
- Concurrent measurements (e.g. cytotoxicity)
- Exposure duration
- Concentrations tested
- Number of replicates at each concentration

- Response values (e.g., IC50, EC50, peptide depletion, maximal induction, etc.; include units)

In silico data:

- Software or model used (cite reference)
- Model parameters (where applicable)
- Predicted values
- Model evaluation (i.e. external and/or cross validation results)