

Review of additional data generated with the Amino acid Depletion Reactivity Assay (ADRA),

The ADRA was included in [OECD Test Guideline 442C](#) as APPENDIX II in 2019, following a validation study coordinated by the Japanese Center for the Validation of Alternative Methods (JaCVAM) and an independent peer review.

Additional data have been generated and are proposed to be used to support the revision of the ADRA test method. The proposed revisions include:

- Adoption of ADRA(4mM) approach instead of 1mM
- Adoption of weight concentration (ADRA(0.5mg/mL))
- Adoption of ADRA-FL as another detection method
- Addition of UVCB substances to the ADRA applicability domain

Proposed revision of the ADRA test method:

- ① Draft revised ADRA test method

Peer review package

In addition to the draft revised ADRA test method above, the peer review package includes six documents. Some are used to support several proposals:

- Adoption of ADRA(4mM) approach
 - ② ADRA Ring study report (ADRA (4 mM))
 - ③ ADRA(4mM) : Imamura et al. (2020)
- Adoption of weight concentration (ADRA(0.5mg/mL))
 - ④ ADRA(0.5mg_mL_FL) Ring-test - Manuscript
 - ⑤ ADRA(0.5mg_mL) : Yamamoto et al., 2019
- Adoption of ADRA-FL as another detection method
 - ② ADRA Ring study report (ADRA (4 mM))
 - ④ ADRA(0.5mg_mL_FL) Ring-test - Manuscript
 - ⑥ ADRA-FL: Wanibuchi et al., 2019
- Addition of UVCB substances to the ADRA applicability domain
 - ⑤ ADRA(0.5mg_mL) : Yamamoto et al., 2019
 - ⑥ ADRA-FL: Wanibuchi et al., 2019
 - ⑦ ADRA-botanical extract: Fujita et al., 2019

Background information:

Initial Validation study report, Peer review report and Performance standards, published in 2019 in the OECD Series on Testing and Assessment:

No. [305](#) Report of the Peer Review Panel on the Validation of the Amino acid Derivative Reactivity Assay (ADRA)

No. [304](#) Validation Study Report Of The Amino Acid Derivative Reactivity Assay (ADRA)

No. [303](#) Performance Standards for the assessment of proposed similar or modified in vitro skin sensitisation DPRA and ADRA test methods