DIN EN ISO 24032:2022-03 (E)

Soil quality - In situ caging of snails to assess bioaccumulation of contaminants (ISO 24032:2021)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **7**

4 Principle ... **8**

5 Test organism and equipment ... **8**
5.1 Biological material ... 8
5.2 Equipment ... 9

6 Preparation of the organisms for the exposure ... **10**

7 Exposure of the test organisms ... **10**
7.1 General ... 10
7.2 Beginning of exposure ... 11
7.3 End of the exposure — Starvation ... 12
7.4 Sampling and preparation after exposure ... 13

8 Calculation and expression ... **13**
8.1 General ... 13
8.2 For metal(loid)s ... 13
8.2.1 Threshold guide value ... 13
8.2.2 Calculation of the sum of the excess of transfer of metal(loid)s: SET index ... 14
8.3 For other chemicals ... 15

9 Validity of the experiment ... **15**

10 Test report ... **15**

Annex A (informative) **Sources and routes of exposure of snails to contaminants in the field** ... **16**

Annex B (informative) **Main steps of the bioassay in situ** ... **17**

Annex C (informative) **Breeding technique for snails** ... **20**

Annex D (informative) **Example of composition of snail feed** ... **27**

Annex E (informative) **Usual concentrations in the viscera of sub-adult snails before caging** ... **28**

Annex F (informative) **Recommended test systems for in situ exposure to assess bioaccumulation of contaminants in snails** ... **29**

Annex G (informative) **Example of mass of snails before exposure** ... **32**

Annex H (informative) **Results of the international ring test** ... **34**

Annex I (informative) **Ex situ exposure to assess bioaccumulation of chemicals in snails** ... **52**

Bibliography ... **60**