

DIN EN ISO 11267:2023-12 (E)

Soil quality - Inhibition of reproduction of Collembola (*Folsomia candida*) by soil contaminants (ISO 11267:2023)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	8
5 Reagents and material	9
6 Apparatus	11
7 Procedure	11
7.1 Experimental design	11
7.1.1 General	11
7.1.2 Range-finding test	11
7.1.3 Definitive test	12
7.2 Preparation of test mixture	12
7.2.1 Testing contaminated soil	12
7.2.2 Testing substances added to the test substrate	13
7.2.3 Preparation of control container	13
7.3 Addition of the biological material	14
7.4 Test conditions and measurements	14
7.5 Determination of surviving Collembola	14
8 Calculation and expression of results	14
8.1 Calculation	14
8.2 Expression of results	14
9 Validity of the test	15
10 Statistical analysis	15
10.1 General	15
10.2 Single-concentration tests	15
10.3 Multi-concentration tests	16
10.3.1 Range-finding test	16
10.3.2 Definitive test	16
11 Test report	17
Annex A (informative) Techniques for rearing and breeding <i>Folsomia candida</i>	18
Annex B (normative) Determination of water-holding capacity	20
Annex C (informative) Guidance on adjustment of pH of artificial soil	21
Annex D (informative) Extraction and counting of Collembola	22
Annex E (informative) Specific information of alternative Collembolan species other than <i>Folsomia candida</i>	23
Bibliography	37