

ISO 17512-1:2008-12 (E)

Soil quality - Avoidance test for determining the quality of soils and effects of chemicals on behaviour - Part 1: Test with earthworms (*Eisenia fetida* and *Eisenia andrei*)

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	2
5	Reagents and materials	3
6	Apparatus	4
7	Procedure	5
7.1	Appropriate concentration range	5
7.2	Testing of soils	5
7.3	Testing of chemical	6
7.4	Reference substance	6
7.5	Validity criteria	6
8	Calculation and expression of results	6
9	Test report	7
Annex A (informative)	Test chambers	8
Annex B (informative)	Example of a breeding technique for <i>Eisenia fetida</i> and <i>Eisenia andrei</i>	11
Annex C (informative)	Further test organisms	12
Annex D (informative)	Contaminants that earthworms can detect and avoid in the avoidance test ...	13
Annex E (normative)	Testing of chemicals in the avoidance test	14
Annex F (normative)	Determination of water-holding capacity	16
Annex G (informative)	Comparison of the results obtained in the two section chamber and six section chamber system	17
Annex H (informative)	Influence of soil properties on avoidance behaviour -- Basis for the threshold value of 20 %	20
Annex I (informative)	Data gained in "dual" tests with the same (untreated) control soil on both sides of the test vessels	22
Bibliography		24