

ISO 18187:2024-05 (E)

Soil quality - Contact test for solid samples using the dehydrogenase activity of *Arthrobacter globiformis*

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	4
5	Reagents and material	4
5.1	Test organisms	4
5.2	Control substrates	4
5.2.1	General	4
5.2.2	Control for soils	4
5.2.3	Control for waste material	5
5.3	Test substrates	5
5.4	Reagents	6
6	Apparatus	8
7	Procedure	9
7.1	Preparation of dilutions	9
7.2	Reference substances and positive control preparation	9
7.3	Contact test procedure	10
7.3.1	General	10
7.3.2	Aeration	10
7.3.3	Deactivation	11
7.3.4	Preparation of the inoculum	11
7.3.5	Incubation and fluorescence measurement	11
7.4	Interferences	11
8	Calculation and expression of results	12
8.1	Calculation	12
8.1.1	Relative fluorescence	12
8.1.2	Determining the percentage of inhibition	12
8.2	Expression of results	12
9	Validity of the test	13
10	Statistical analysis	13
11	Test report	14
Annex A (informative) Results on the interlaboratory test		15
Annex B (informative) Preparation of test organisms		22
Annex C (informative) Testing chemical substances		24
Bibliography		26