

# ISO 18187:2024-05 (E)

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

---

<b>Contents</b>		<b>Page</b>
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