

Irish Standard I.S. EN ISO 23753-2:2011

Soil Quality - Determination of dehydrogenase activity in soils - Part 2: Method using iodotetrazolium chloride (INT) (ISO 23753-2:2005)

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.				
This document replaces:				
This document is based on. EN ISO 23753-2:2011	<i>Published:</i> 21 July, 2011			
This document was publisl under the authority of the and comes into effect on: 21 July, 2011			ICS number: 13.080.30	
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie		
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EUROPEAN STANDARD

EN ISO 23753-2

NORME EUROPÉENNE EUROPÄISCHE NORM

July 2011

ICS 13.080.30

English Version

Soil Quality - Determination of dehydrogenase activity in soils - Part 2: Method using iodotetrazolium chloride (INT) (ISO 23753-2:2005)

Qualité du sol - Détermination de l'activité des déshydrogénases dans les sols - Partie 2: Méthode au chlorure de iodotétrazolium (CIT) (ISO 23753-2:2005)

Bodenbeschaffenheit - Bestimmung der Dehydrogenaseaktivität in Böden - Teil 2: Verfahren mit Iodotetrazoliumchlorid (INT) (ISO 23753-2:2005)

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EN ISO 23753-2:2011 (E)

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Foreword

The text of ISO 23753-2:2005 has been prepared by Technical Committee ISO/TC 190 "Soil quality" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 23753-2:2011 by Technical Committee CEN/TC 345 "Characterization of soils" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2012, and conflicting national standards shall be withdrawn at the latest by January 2012.

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ISO 23753-2

First edition 2005-11-01

Soil quality — Determination of dehydrogenase activity in soils —

Part 2:

Method using iodotetrazolium chloride (INT)

Qualité du sol — Détermination de l'activité des déshydrogénases dans les sols —

Partie 2: Méthode au chlorure de iodotétrazolium (CIT)



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ISO 23753-2:2005(E)

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ISO 23753-2:2005(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 23753-2 was prepared by Technical Committee ISO/TC 190, Soil quality, Subcommittee SC 4, Biological methods.

ISO 23753 consists of the following parts, under the general title Soil quality — Determination of dehydrogenase activity in soils:

- Part 1: Method using triphenyltetrazolium chloride (TTC)
- Part 2: Method using iodotetrazolium chloride (INT)

ISO 23753-2:2005(E)

Introduction

The soil microflora is responsible for the decomposition and conversion of organic substances, aggregation stability and the carbon, nitrogen, sulfur and phosphorus cycles. Dehydrogenases, as respiratory chain enzymes, play a major role in the energy production by organisms. They oxidize organic compounds by transferring two hydrogen atoms. Dehydrogenases are essential components of the enzyme system of microorganisms. Dehydrogenase activity can therefore be used as an indicator of biological redox systems and as a measure of microbial activity in the soil.

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