

SLOVENSKI STANDARD
SIST EN ISO 23753-1:2019/oprA1:2020
01-april-2020

Kakovost tal - Določevanje aktivnosti dehidrogenaze v tleh - 1. del: Metoda s trifeniltetrazolijevim kloridom (TTC) - Dopnilo A1 (ISO 23753-1:2019/DAM 1:2020)

Soil quality - Determination of dehydrogenases activity in soils - Part 1: Method using triphenyltetrazolium chloride (TTC) - Amendment 1 (ISO 23753-1:2019/DAM 1:2020)

Bodenbeschaffenheit - Bestimmung der Dehydrogenaseaktivität in Böden - Teil 1: Verfahren mit Triphenyltetrazoliumchlorid (TTC) (ISO 23753-1:2019/DAM 1:2020)

Qualité du sol - Détermination de l'activité des déshydrogénases dans les sols - Partie 1: Méthode au chlorure de triphényltétrazolium (CTT) - Amendement 1 (ISO 23753-1:2019/DAM 1:2020)

Ta slovenski standard je istoveten z: EN ISO 23753-1:2019/prA1

ICS:

13.080.30 Biološke lastnosti tal Biological properties of soils

SIST EN ISO 23753-1:2019/oprA1:2020 en,fr,de

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DRAFT AMENDMENT

ISO 23753-1:2019/DAM 1

ISO/TC 190/SC 4

Secretariat: AFNOR

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Soil quality — Determination of dehydrogenases activity in soils —

Part 1: Method using triphenyltetrazolium chloride (TTC)

AMENDMENT 1: - AMENDMENT 1

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

Partie 1: Méthode au chlorure de triphényltétrazolium (CTT)

AMENDEMENT 1: - AMENDEMENT 1

ICS: 13.080.30

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This document was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 4, *Biological characterization*.

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Soil quality — Determination of dehydrogenases activity in soils —

Part 1: Method using triphenyltetrazolium chloride (TTC)

AMENDMENT 1: - AMENDMENT 1

Clause 9

Replace the text with the following.

Determine the dehydrogenases activity (based on dry soil) from the standard curve and Formula (1):

$$A = \frac{(C_s - C_b) \times V \times 100}{m \times DM \times RT} \quad (1)$$

where

A is the enzymatic activity in mU/g of each dry sample replicate (nmol/min/g of dry sample);

C_s is the concentration of TPF formed in sample replicates in nmol/ml;

C_b is the concentration of TPF formed in control tube in nmol/ml;

V is the reaction volume [= volume of substrate + volume of buffer solution + volume of ethanol], in ml;

RT is the reaction time (min);

m is the soil mass per tube, in g;

DM is the sample dry matter content in accordance with ISO 11465, as percentage.

NOTE The factor 100 in Formula (1) is needed because DM is given as percentage