

**SLOVENSKI STANDARD**  
**SIST EN ISO 23753-2:2019/oprA1:2020**  
**01-april-2020**

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**Kakovost tal - Določevanje aktivnosti dehidrogenaze v tleh - 2. del: Metoda z jodotetrazolijevim kloridom (INT) - Dopolnilo A1 (ISO 23753-2:2019/DAM 1:2020)**

Soil quality - Determination of dehydrogenases activity in soils - Part 2: Method using iodotetrazolium chloride (INT) - Amendment 1 (ISO 23753-2:2019/DAM 1:2020)

Bodenbeschaffenheit - Bestimmung der Dehydrogenaseaktivität in Böden - Teil 2: Verfahren mit Iodotetrazoliumchlorid (INT) (ISO 23753-2:2019/DAM 1:2020)

Qualité du sol - Détermination de l'activité des déshydrogénases dans les sols - Partie 2: Méthode au chlorure de iodotétrazolium (INT) - Amendement 1 (ISO 23753-2:2019/DAM 1:2020)

**Ta slovenski standard je istoveten z: EN ISO 23753-2:2019/prA1**

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**ICS:**

13.080.30      Biološke lastnosti tal      Biological properties of soils

**SIST EN ISO 23753-2:2019/oprA1:2020    en,fr,de**

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# DRAFT AMENDMENT

## ISO 23753-2:2019/DAM 1

ISO/TC 190/SC 4

Secretariat: AFNOR

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### Soil quality — Determination of dehydrogenases activity in soils —

#### Part 2: Method using iodotetrazolium chloride (INT)

#### AMENDMENT 1: - AMENDMENT 1

*Qualité du sol — Détermination de l'activité des déshydrogénases dans les sols —**Partie 2: Méthode au chlorure de iodotétrazolium (INT)**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 2: Method using iodotetrazolium chloride (INT)

### AMENDMENT 1: - AMENDMENT 1

#### Clause 9

Replace the text with the following.

The standard curve is plotted for INTF concentration (nmol/ml) versus absorbance. The concentration of INTF produced are determined with the linear model of the standard curve (nmole/ml) and then the dehydrogenases activity ( $A$ ) calculated with the following equation:

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

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 INTF formed in sample replicates in nmol/ml;
- $C_b$  is the concentration of INTF formed in control tube in nmol/ml;
- $V$  is the reaction volume [= volume of substrate or buffer solution (2 ml or 5 ml) + volume of acetone (8 ml or 20 ml)], 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