ISO 22190:2020-03 (E)

Soil quality - Use of extracts for the assessment of bioavailability of trace elements in soils

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Background 2
4.1 General 2
4.1.1 Presence of trace elements in the soil matrix 2
4.1.2 Neutral extracts for measurement of actual availability (ISO 21268-1) 4
4.1.3 Acid extracts for measurement of potential availability (ISO 17586) 4
4.2 Tiered approach based on bioavailability 5

5 General procedure using an extract 5

6 Reporting 6

7 Calibration 6
7.1 Introduction 6
7.2 Applicability of soil extracts 7
7.3 Limits of soil extracts to estimate trace element bioavailability 7

Annex A (informative) Calibration towards biological targets 8

Annex B (informative) Examples of transfer functions 11

Bibliography 12