ISO 12782-5:2012-06 (E)

Soil quality - Parameters for geochemical modelling of leaching and speciation of constituents in soils and materials - Part 5: Extraction of humic substances from aqueous samples

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 3

5 Apparatus 3

6 Reagents 3

7 Sampling 4
7.1 Laboratory sample 4
7.2 Test sample 4
7.3 Test portion 4

8 Procedure 4
8.1 Preparation of DAX-8 resin 4
8.2 Determination of total humic acid (HA), fulvic acid (FA) and hydrophilic organic carbon (Hy) content in aqueous samples 5

9 Eluate treatment and storage 5

10 Analytical determination 5

11 Blank test 5

12 Calculation 6
12.1 General correction factors for the calculation of humic acid (HA), fulvic acid (FA), hydrophilic organic carbon (Hy) and hydrophobic neutral organic carbon (HON) in aqueous samples 6
12.2 Concentration of total humic acid (HA), fulvic acid (FA), hydrophilic organic carbon (Hy) and hydrophobic neutral organic carbon (HON) concentrations in aqueous samples 7

13 Expression of results 8

14 Test report 8

15 Performance characteristics 8

Annex A (informative) Schematic representation of the fractionation procedure 9

Annex B (informative) Validation of procedure 11

Annex C (informative) Conditions regarding centrifugation 16

Bibliography 19