DIN EN ISO 12782-5:2012-09 (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 (ISO 12782-5:2012)

Contents

Page

Foreword 3

Introduction 4

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Principle 8

5 Apparatus 8

6 Reagents 8

7 Sampling 9
7.1 Laboratory sample 9
7.2 Test sample 9
7.3 Test portion 9

8 Procedure 9
8.1 Preparation of DAX-8 resin 9
8.2 Determination of total humic acid (HA), fulvic acid (FA) and hydrophilic organic carbon (Hy) content in aqueous samples 10

9 Eluate treatment and storage 10

10 Analytical determination 10

11 Blank test 10

12 Calculation 11
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 11
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 12

13 Expression of results 13

14 Test report 13

15 Performance characteristics 13

Annex A (informative) Schematic representation of the fractionation procedure 14

Annex B (informative) Validation of procedure 16

Annex C (informative) Conditions regarding centrifugation 21

Bibliography 24