

# DIN EN ISO 12782-4:2012-09 (E)

Soil quality - Parameters for geochemical modelling of leaching and speciation of constituents in soils and materials - Part 4: Extraction of humic substances from solid samples (ISO 12782-4:2012)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Principle .....	8
5	Apparatus .....	8
6	Reagents .....	9
7	Sample pretreatment .....	10
7.1	Sample size .....	10
7.2	Particle size reduction .....	10
7.3	Determination of dry residue .....	11
7.4	Test portion .....	11
8	Procedure .....	11
8.1	Preparation of DAX-8 resin .....	11
8.2	Determination of total humic acid (HA), fulvic acid (FA) and hydrophilic organic carbon (Hy) content in solid source materials .....	12
9	Eluate treatment and storage .....	12
10	Analytical determination .....	12
11	Blank test .....	12
12	Calculation .....	13
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 liquid and solid samples .....	13
12.2	Concentration of total humic acid (HA), fulvic acid (FA), hydrophilic organic carbon (Hy) and hydrophobic neutral organic carbon (HON) concentrations in solid samples .....	14
13	Expression of results .....	16
14	Test report .....	16
15	Performance characteristics .....	16
Annex A (informative) Schematic representation of the fractionation procedure .....		17
Annex B (informative) Validation of procedure .....		19

<b>Annex C (informative) Conditions regarding centrifugation .....</b>	<b>24</b>
<b>Bibliography .....</b>	<b>27</b>