



National Standards Authority of Ireland

IRISH STANDARD

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ICS 13.030.10
13.080.10

**CHARACTERISATION OF WASTE AND SOIL -
DETERMINATION OF CHROMIUM(VI) IN SOLID
MATERIAL BY ALKALINE DIGESTION AND
ION CHROMATOGRAPHY WITH
SPECTROPHOTOMETRIC DETECTION**

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Údarás um Chaighdeán Náisiúnta na hÉireann

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EUROPÄISCHE NORM

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English Version

Characterisation of waste and soil - Determination of Chromium(VI) in solid material by alkaline digestion and ion chromatography with spectrophotometric detection

Caractérisation des déchets et des sols - Dosage du chrome VI dans les matériaux solides par digestion alcaline et chromatographie ionique avec détection spectrophotométrique

Charakterisierung von Abfällen und Boden - Bestimmung von sechswertigem Chrom in Feststoffen durch alkalischen Aufschluss und Ionenchromatographie mit photometrischer Detektion

This European Standard was approved by CEN on 6 October 2006.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Contents

Page

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and Definitions	5
4 Safety remarks	5
5 Principle	6
6 Apparatus	7
7 Reagents	8
8 Sample pretreatment	10
9 Alkaline digestion procedure	10
10 Analytical procedure	11
11 Calculation.....	14
12 Expression of results	14
13 Test report	14
Annex A (informative) Alternative methods for direct determination of Cr(VI) in the alkaline digestion solution	16
Annex B Ion chromatographic system	17
Annex C (informative) Requirements for test portion preparation	18
Annex D (informative) Background on methods for the determination of Cr(VI) in solid samples	19
D.1 Summary of literature methods for Cr (VI) determinations in solids [6].....	19
D.2 Theoretical kinetic background for Cr(III)-Cr(VI) inter-conversions [6]	19
D.3 Special needs for Cr(VI) determination in soil extracts [7].....	20
D.4 Determination of Cr(VI) in glass	21
D.5 Determination of Cr(VI) in air particulate matter	21
Annex E (informative) Validation	22
Bibliography	26

Foreword

This document (EN 15192:2006) has been prepared by Technical Committee CEN/TC 292 “Characterization of waste”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2007, and conflicting national standards shall be withdrawn at the latest by May 2007.

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Introduction

Under environmental conditions chromium in compounds exists in the trivalent, Cr(III), or the hexavalent, Cr(VI) state. Cr(III) is an essential trace element for mammals, including man, whereas it is presumed that Cr(VI) compounds are genotoxic and potentially carcinogenic in humans. Interconversion of trivalent and hexavalent chromium species can occur during sample preparation and analysis, but these processes are minimised, to the extent possible, by the sample preparation methods prescribed by this standard.

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