

# DIN EN 15297:2011-04 (E)

## Solid biofuels - Determination of minor elements - As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	5
4	Symbols and abbreviations .....	6
4.1	Symbols .....	6
4.2	Abbreviations .....	6
5	Principle .....	6
6	Reagents .....	7
6.1	General .....	7
6.2	Water .....	7
6.3	Hydrofluoric acid (HF) .....	7
6.4	Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) .....	7
6.5	Nitric acid (HNO <sub>3</sub> ) .....	7
6.6	Boric acid (H <sub>3</sub> BO <sub>3</sub> ) .....	7
6.7	Use of Certified Reference Materials (CRM or SRM) .....	7
7	Apparatus .....	7
8	Preparation of the test sample .....	8
9	Procedure .....	8
9.1	Digestion .....	8
9.2	Detection methods .....	9
9.3	Calibration of the apparatus .....	9
9.4	Analysis of the digests .....	9
9.5	Blank test .....	9
10	Calculations .....	10
11	Performance characteristics .....	10
12	Test report .....	10
Annex A (informative) Performance data .....		11
Bibliography .....		15