

DIN EN 15550:2017-10 (E)

Animal feeding stuffs - Methods of sampling and analysis - Determination of cadmium and lead by graphite furnace atomic absorption spectrometry (GF-AAS) after pressure digestion

| Contents | | Page |
|---|--|-------------|
| European foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Terms and definitions | 4 |
| 4 | Principle | 5 |
| 5 | Reagents | 5 |
| 6 | Apparatus | 6 |
| 7 | Sampling | 7 |
| 8 | Preparation of the test sample | 7 |
| 8.1 | General | 7 |
| 8.2 | Animal feeding stuffs which can be ground as such | 7 |
| 8.3 | Liquid animal feeding stuffs | 8 |
| 8.3.1 | General | 8 |
| 8.3.2 | Pre-drying | 8 |
| 8.3.3 | Freeze-drying | 8 |
| 8.4 | Mineral matrices | 8 |
| 9 | Procedure | 8 |
| 9.1 | Digestion | 8 |
| 9.1.1 | General | 8 |
| 9.1.2 | Pressure digestion | 8 |
| 9.2 | Extractable lead in minerals and feeds containing phyllosilicates (e.g. kaolinite clay) - extraction with diluted nitric acid | 9 |
| 9.3 | Calibration | 9 |
| 9.4 | Determination | 9 |
| 9.4.1 | General | 9 |
| 9.4.2 | Determination by AAS graphite furnace - atomic absorption spectrometry | 9 |
| 10 | Calculation and expression of the result | 10 |
| 11 | Precision | 10 |
| 11.1 | Inter-laboratory test | 10 |
| 11.2 | Repeatability | 10 |
| 11.3 | Reproducibility | 10 |
| 12 | Test report | 12 |
| Annex A (informative) Results of the inter-laboratory tests | | 13 |
| Annex B (informative) Notes on the detection technique, interferences and quantification, and pressure digestion | | 16 |
| Bibliography | | 18 |