

ISO 2171:2023-02 (E)

Cereals, pulses and by-products - Determination of ash yield by incineration

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 2 |
| 5 | Reagents | 2 |
| 6 | Apparatus | 2 |
| 7 | Sampling | 3 |
| 8 | Preparation of the test sample | 3 |
| 9 | Procedure | 3 |
| 9.1 | Incineration temperatures | 3 |
| 9.2 | Determination of the moisture content | 3 |
| 9.3 | Preparation of the ashing dishes | 4 |
| 9.4 | Preparation of the test portion | 4 |
| 9.5 | Pre-ashing | 4 |
| 9.6 | Ashing | 4 |
| 9.7 | Number of determinations | 5 |
| 10 | Expression of results | 5 |
| 11 | Precision | 5 |
| 11.1 | Interlaboratory tests | 5 |
| 11.2 | Repeatability, r | 5 |
| 11.3 | Reproducibility, R | 6 |
| 11.4 | Critical difference | 6 |
| 11.4.1 | Comparison of two groups of measurements in one laboratory | 6 |
| 11.4.2 | Comparison of two groups of measurements in two laboratories | 6 |
| 11.5 | Uncertainty, U | 6 |
| 12 | Test report | 7 |
| Annex A (informative) Results of interlaboratory tests | | 8 |
| Annex B (informative) Practical application of repeatability and reproducibility limits | | 11 |
| Bibliography | | 12 |