

ISO 11063:2012-02 (E)

Soil quality - Method to directly extract DNA from soil samples

| Contents | | Page |
|--|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 1 |
| 5 | Test materials | 2 |
| 5.1 | Soil | 2 |
| 5.2 | Chemicals | 2 |
| 5.3 | Buffers and reagents | 3 |
| 6 | Apparatus | 4 |
| 7 | Procedures | 4 |
| 7.1 | Preparation of soil samples | 4 |
| 7.2 | Mechanical and chemical lyses | 4 |
| 7.3 | Protein precipitation | 4 |
| 7.4 | Nucleic acid precipitation and washing | 4 |
| 7.5 | Nucleic acid storage | 4 |
| 8 | Estimation of soil DNA quality and quantity | 5 |
| 8.1 | Soil DNA quality and purity | 5 |
| 8.2 | Soil DNA quantity | 5 |
| 9 | Validation of the extraction procedure | 5 |
| 10 | International ring test | 5 |
| 11 | Test report | 5 |
| Annex A (informative) International ring test for evaluating soil DNA extraction procedure | | 7 |
| Bibliography | | 21 |