

ISO/TS 20224-11:2024-02 (E)

Molecular biomarker analysis - Detection of animal-derived materials in foodstuffs and feedstuffs by real-time PCR - Part 11 : Pigeon DNA detection method

| Contents | | Page |
|--|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Scientific basis | 2 |
| 5 | Reagents and materials | 2 |
| 5.1 | General | 2 |
| 5.2 | PCR reagents | 2 |
| 5.2.1 | PCR master mix | 2 |
| 5.2.2 | Oligonucleotides | 2 |
| 6 | Apparatus | 3 |
| 6.1 | Real-time thermocycler instrument | 3 |
| 7 | Procedure | 3 |
| 7.1 | Preparation of the test portion/sample | 3 |
| 7.2 | Preparation of DNA extracts | 3 |
| 7.3 | PCR setup | 3 |
| 7.3.1 | Reaction mixes | 3 |
| 7.3.2 | PCR controls | 4 |
| 7.3.3 | Real-time PCR thermocycler plate set-up | 4 |
| 7.4 | Temperature-time programme | 4 |
| 8 | Accept/reject criteria | 5 |
| 8.1 | General | 5 |
| 8.2 | Identification | 5 |
| 9 | Validation status and performance criteria | 5 |
| 9.1 | General | 5 |
| 9.2 | Robustness | 5 |
| 9.3 | Reproducibility | 6 |
| 9.4 | Sensitivity | 6 |
| 9.5 | Specificity | 9 |
| 10 | Test report | 11 |
| Annex A (informative) BlastN +2.12.0 results for query of GenBank RefSeq genome (refseq_ genomes) and whole-genome shotgun contigs (wgs) | | 12 |
| Annex B (informative) Members of the Columbidae family and its family tree established with available public genomic sequences | | 14 |
| Bibliography | | 24 |