

ISO/TS 20224-1:2020 (E)

Molecular biomarker analysis — Detection of animal-derived materials in foodstuffs and feedstuffs by real-time PCR — Part 1: Bovine DNA detection method

Contents

| | |
|---------|--|
| | Foreword |
| | Introduction |
| 1 | Scope |
| 2 | Normative references |
| 3 | Terms and definitions |
| 4 | Scientific basis |
| 5 | Reagents and materials |
| 5.1 | General |
| 5.2 | PCR reagents |
| 6 | Apparatus |
| 7 | Procedure |
| 7.1 | Preparation of the test portion/sample |
| 7.2 | Preparation of DNA extracts |
| 7.3 | PCR setup |
| 7.3.1 | Reaction mixes |
| 7.3.2 | PCR controls |
| 7.3.2.1 | General |
| 7.3.2.2 | Inhibition control (reference gene assay) |
| 7.3.3 | Real-time PCR thermocycler plate set-up |
| 7.4 | Temperature-time programme |
| 8 | Accept/reject criteria |
| 8.1 | General |
| 8.2 | Identification |
| 9 | Validation status and performance criteria |
| 9.1 | General |
| 9.2 | Robustness |
| 9.3 | Reproducibility |
| 9.4 | Sensitivity |
| 9.5 | Specificity |
| 10 | Test report |
| Annex A | (informative) BlastN 2.9.0 results for query of GenBank refseq_genomes (6 databases) |
| A.1 | Query |
| A.2 | Distribution of the top 9 Blast hits on 9 subject sequences |
| A.3 | Descriptions |
| A.4 | Alignments |