DIN EN ISO 24914:2026-08 (E)

Microbiology of the food chain - Loop-mediated isothermal amplification (LAMP) for the detection of microorganisms and associated genetic markers - General requirements and definitions (ISO 24914:2026)

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **2**

4 Principle ... **3**
4.1 General ... 3
4.2 Laboratory procedure ... 4
4.3 Data interpretation ... 4
4.4 Performance criteria ... 4

5 General laboratory guidance ... **4**
5.1 General ... 4
5.2 Laboratory setup ... 5
5.3 Use of controls ... 5
5.3.1 General ... 5
5.3.2 Positive extraction control ... 6
5.3.3 Internal/external amplification control ... 6

6 Reagents and consumables ... **6**

7 Equipment ... **7**

8 Laboratory procedure ... **7**
8.1 General ... 7
8.2 Sample preparation ... 7
8.3 Nucleic acid extraction ... 7
8.4 Isothermal amplification ... 8
8.5 Signal detection ... 8

9 Data interpretation ... **8**
9.1 General ... 8
9.2 Interpretation of controls ... 8
9.3 Interpretation of test portion results ... 9
9.4 Test report ... 9

10 Performance characteristics ... **9**

Annex A (informative) **LAMP basics** ... **10**

Bibliography ... **16**