# DIN EN ISO 11816-1:2024-09 (Engli sch)

## Milk and milk products - Determination of alkaline phosphatase activity - Part 1: Fluorimetric method for milk and milk-based drinks (ISO 11816-1:2024)

## Contents

Page


**European foreword** ... **3**

**Foreword** ... **4**

**1 Scope** ... **6**

**2 Normative references** ... **6**

**3 Terms and definitions** ... **6**

**4 Principle** ... **6**

**5 Reagents** ... **7**

**6 Apparatus** ... **8**

**7 Sampling** ... **9**

**8 Preparations** ... **9**
8.1 Alkaline phosphatase-free milk ... 9
8.2 Preparation of the test sample ... 9
8.2.1 General ... 9
8.2.2 Pasteurized test samples ... 9
8.2.3 Dilution of test samples with high ALP values ... 9

**9 Procedure** ... **9**
9.1 Verification of instrument performance ... 9
9.1.1 General ... 9
9.1.2 Daily instrument tests ... 10
9.1.3 Using FLM200 ... 10
9.1.4 Using FLM300 ... 10
9.1.5 Controls ... 10
9.2 Reagent controls to test the suitability of ready-to-use working substrate (5.3) ... 11
9.3 Calibration ... 11
9.3.1 General ... 11
9.3.2 Using FLM200 ... 11
9.3.3 Using FLM300 ... 11
9.4 Determination ... 12
9.5 Test-sample-related controls ... 13
9.5.1 Recommended negative and positive control tests ... 13
9.5.2 Interfering substance test ... 13
9.5.3 Heat-stable microbial alkaline phosphatase control test ... 13

**10 Calculation and expression of results** ... **13**
10.1 Calibration ratio ... 13
10.2 Calculation ... 14
10.3 Expression of test results ... 14

**11 Precision** ... **14**
11.1 Interlaboratory study ... 14
11.2 Repeatability ... 14
11.3 Reproducibility ... 14

**12 Test report** ... **15**

**Annex A** (informative) **Interlaboratory study** ... **16**

**Bibliography** ... **19**