DIN EN ISO 30024:2024-09 (E)

Animal feeding stuffs - Determination of phytase activity (ISO 30024:2024)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

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

4 Principle ... **7**

5 Reagents ... **8**

6 Apparatus ... **10**

7 Sampling and sample preparation ... **10**

8 Sample extractions ... **11**
8.1 For compound feeds (excluding mineral feeds) ... 11
8.2 For mineral feeds and premixtures ... 11
8.3 For feed additives ... 11

9 Procedure ... **12**
9.1 General ... 12
9.2 Blank solution ... 12
9.3 Standards ... 12
9.3.1 Phosphate standard solution ... 12
9.3.2 Phytase level control ... 12
9.4 Standard curve ... 12
9.5 Phytase level control ... 13
9.6 For compound feed (excluding mineral feeds) ... 14
9.7 For mineral feeds and premixtures ... 15
9.8 For feed additives ... 15

10 Calculations ... **16**
10.1 Formulation of standard curve ... 16
10.2 Calculation of phytase activity ... 17
10.3 Correction for phytic acid purity and water content ... 18
10.4 Interference with blank values ... 19

11 Precision ... **19**
11.1 Limit of detection and limit of quantification ... 19
11.2 Interlaboratory tests ... 19
11.3 Repeatability ... 19
11.4 Reproducibility ... 20

12 Test report ... **20**

Annex A (informative) **Interlaboratory study results for compound feeds (excluding mineral feeds)** ... **21**

Annex B (informative) **Interlaboratory study results for mineral feeds and premixtures** ... **24**

Annex C (informative) **Interlaboratory study results for feed additives** ... **25**

Bibliography ... **27**