DIN EN 17547:2022-01 (E)

Animal feeding stuffs: Methods of sampling and analysis - Determination of vitamin A, E an d D content - Method using solid phase extraction (SPE) clean-up and high-performance liquid chromatography (HPLC)

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Principle 6

5 Reagents and materials 8

6 Apparatus 9

7 Sampling 10

8 Sample preparation 11

9 Procedure 11

10 Expression of results 21

11 Observations 24

12 Precision 25

13 Test report 26

Annex A (informative) Examples of combinations of weighing, aliquot and dilution to reach concentrations within the calibration curve 27

Annex B (informative) Preparation of stock standard solution of vitamin E (-tocopherol) from -tocopherol acetate 30

B.1 General 30
B.2 Reagents 30
B.3 Preparation of stock standard 30
B.4 Standardization of the vitamin E (-tocopherol) stock standard solution in cyclohexane 30
B.5 Calibration solutions and plotting of calibration graph for vitamins A (retinol) and E (-tocopherol) 31

Annex C (informative) Results of the interlaboratory study 32

Bibliography 37