ISO 24363:2023-02 (E)

Determination of fatty acid methyl esters (cis and trans) and squalene in olive oil and other vegetable oils by gas chromatography

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 1

5 Reagents and materials 2

6 Apparatus 3

7 Sample 3
7.1 Sampling 3
7.2 Preparation of test sample 4

8 Procedure 4
8.1 Preparation of FAME samples 4
8.2 Gas chromatography 5
8.2.1 General 5
8.2.2 System suitability 5

9 Expression of results 5
9.1 Quantitative analysis 5
9.1.1 FAME, by area % 5
9.1.2 FAME, by mass (g/100 g) 6
9.1.3 Squalene 6

10 Precision of the method 6
10.1 Interlaboratory test 6
10.2 Repeatability 7
10.3 Reproducibility 7

11 Test report 7

Annex A (informative) Example chromatogram of FAME and squalene in an extra virgin olive oil sample 8

Annex B (informative) Quantitative analysis using correction factors -- Calculation of FAME using correction factors 9

Annex C (informative) Results of an interlaboratory test 11

Bibliography 22