ISO 7358:2021-05 (E)

Essential oils of bergamot, lemon, bitter orange and lime, fully or partially reduced in bergapten - Determination of bergapten content by high-performance liquid chromatography (HPLC)

Contents

Page

Foreword ... iv

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Principle ... 1

5 Reagents ... 1

6 Apparatus ... 2
6.1 Common laboratory equipment ... 2
6.2 HPLC system ... 3

7 Sample preparation ... 3

8 Procedure ... 3
8.1 Operating conditions ... 3
8.2 Determination ... 3
8.2.1 HPLC in normal phase ... 3
8.2.2 HPLC in reversed phase ... 5

9 Calculation — Normal phase or reversed phase HPLC ... 7
9.1 Internal standard method ... 7
9.2 External standard method ... 7

10 Precision — Repeatability ... 7

11 Test report ... 8

Annex A (informative) **Typical chromatogram of the reference substances using high-performance liquid chromatography (HPLC) of reference compounds in reversed phase** ... 9

Annex B (informative) **Bergapten UV-Vis spectrum** ... 10

Bibliography ... 11