

ICS 67.200.10
CCS X 14



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 47062-2026

**Animal and vegetable fats and oils - Determination of hydroxytyrosol
and tyrosol content in extra virgin olive oils - Reverse phase high
performance liquid chromatography method**

动植物油脂 特级初榨橄榄油中羟基酪醇和酪醇含量的测定 反相高效液相色谱法
(English Translation)

Issued on: January 28, 2026

Implemented on: August 1, 2026

Issued by: State Administration for Market Regulation

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 Principles
5 Reagents

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

This document adopts ISO 23942:2022 "Determination of Hydroxytyrosol and Tyrosol Content in Extra Virgin Olive Oil by Reversed-Phase High Performance Liquid Chromatography" as equivalent to standard ISO 23942:2022. Chromatography (RP-HPLC)

The following minimal editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Content of Hydroxytyrosol and Tyrosol in Extra Virgin Olive Oil from Animal and Vegetable Oils". Determination by reversed-phase high-performance liquid chromatography.

1 Scope

This document describes the determination of hydroxytyrosol and tyrosol content in extra virgin olive oil using reversed-phase high-performance liquid chromatography-spectroscopy method.

This method is applicable to the determination of hydroxytyrosol and tyrosol content in all commercial olive oils.

2 Normative references

There are no normative references in this document.

3 Terms and Definitions

The following terms and definitions apply to this document.

The URLs for the terminology databases maintained by ISO and IEC for standardization

are as follows.

5 Reagents

5.1

Phosphoric acid. 85% by volume.

5.2

Methanol. chromatographic grade.

5.3

Acetonitrile. chromatographic grade.

5.4

Water. chromatographic grade.

5.5

Ethanol. 96% by volume.

5.6

Sulfuric acid. 96% by volume.

5.7

Methanol/water solution. volume ratio 80.20.

5.8

Standard. Hydroxytyrosol or 3,4-dihydroxyphenylethanol (C₈H₁₀O₃, CAS. 10597-60-1), purity ≥98%.