

ISO/TS 3632-2:2003-11 (E)

Saffron (*Crocus sativus* L.) - Part 2: Test methods

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Tests and sample sizes	2
5	Identification test	4
6	Microscopic examination of saffron	5
7	Determination of moisture and volatile matter content	8
8	Determination of floral waste content of saffron in filaments and cut filaments	10
9	Determination of foreign matter content of saffron in filaments	10
10	Crushing and sieving of the samples for tests described in Clauses 6, 7 and 12 to 17	11
11	Determination of extract soluble in cold water	12
12	Determination of total ash	12
13	Determination of acid-insoluble ash	12
14	Determination of the main characteristics using a UV-Vis spectrometric method	12
15	Identification of saffron pigments	14
16	Detection and identification of artificial water-soluble acidic colourants: Thin-layer chromatography method (TLCM)	16
17	Detection of artificial water-soluble acidic colourants by high-performance liquid chromatography (HPLC)	20
Annex A (informative) Example of the expression of results for a microscopic examination		25
Annex B (informative) Photographic references for microscopic identification		27
Annex C (informative) Example of a UV-Vis profile of an aqueous extract of saffron		30
Annex D (informative) Examples of chromatograms obtained under test conditions		31
Bibliography		33