Specialized Saffron and Rock Candy Testing Laboratory

Paniz Shahd Binalood Parsian

Saffron Physicochemical and Microbiological Test Report

NACI/LAB/1512
ISO/IEC/17025

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Revision No.:
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Sample Code:	S40846	**Sampling Location:**	***	**Production Date:**	***
Request Letter No.:	143	**Batch No.:**	***	**Sampling Date:**	***
Sample Type:	Super Negin	**Requester Name:**	***	**Date Received:**	08.06.2026
Production Unit Name:	***	**Seal No.:**	***	**Test Date:**	08.06.2026
Trade Brand Name:	Saharkhiz	**Barcode No.:**	***	**Results Issuance Date:**	08.06.2026

Characteristic	No.	Characteristics		Test Results	Defect Type	Permissible Limit									Test Method Standard
						Thread Grade					Powder Grade				
						Extra	Grade 1	Grade 2	Grade 3	Grade 4	Extra	Grade 1	Grade 2	Grade 3	
Physicochemical	1	Taste and Aroma		***	Major	Its own distinctive taste and aroma, slightly bitter and pungent, and free from any foreign flavors or odors									INSO 259-1:1391 Cl. 5-1-1
	2	Physical Appearance		***	Major	Uniform color and absence of clumping caused by high humidity or improper drying									INSO 259-1:1391 Cl. 5-1-2
	3	Determination of the mass percentage of style attached to the stigma in saffron (whole threads and cut threads)	Maximum	***	Major	0.5	5	10	20	30	-				INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 9
	4	Foreign Matter (Mass Percent) Plant-Related	Maximum	***	Minor	0.1	1	2	2	2	0.1	1	2	2	INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 10-2
	5	Foreign Matter (Mass Percent) Environment-Related	Negative	***	Major	Negative									
	6	Determination of moisture and volatile matter content (mass percentage)	Maximum	6.11	Major	10	10	12	12	12	8	8	10	10	INSO 259-1:1391 Cl. 5-2 INSO 259-2:139 Cl. 8
	7	Determination of total ash mass percentage on a dry matter basis	Maximum	***	Major	5.5	6	7	7	7	5.5	6	7	7	INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 13 INSO 1197:1390
	8	Acid insoluble ash on dry matter basis (maximum mass percentage)	Maximum	***	Major	0.5	1	1	1	1	0.5	1	1	1	INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 14 ISIRI 1253:1399
	9	Cold-water-soluble extract based on dry matter (maximum mass percentage)	Maximum	***	Major	65									INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 12 ISIRI 12185:1388
	10	Determination of key characteristics using the UV-Vis spectrophotometry method (picrocrocin at a wavelength of 257 nm) on a dry matter basis	Minimum	86	Major	85	80	70	70	70	85	80	70	70	INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 15
	11	Determination of key characteristics using the UV-Vis spectrophotometry method (safranal at 330 nm) on a dry matter basis	Minimum	31	Major	20 - 50									
	12	Determination of key characteristics using the UV-Vis spectrophotometry method (crocin at 440 nm) on a dry matter basis	Minimum	259	Major	220	200	180	150	140	220	200	180	150	
	13	Identification of water-soluble acidic synthetic dyes using thin-layer chromatography (TLC)	Negative	Negative	Critical	Negative									INSO 259-1:1391 Cl. 5-2 INSO 259-2:1391 Cl. 18
	14	Packaging	-	***	Minor	In accordance with the standard									INSO 259-1:1391 Cl. 7
	15	Marking / Labeling	-	***	Major	In accordance with the standard									INSO 259-1:1391 Cl. 8
	16	Net Weight	-	***	Major	In accordance with the weight stated on the packaging									***
Microbiological	17	Method for the enumeration of yeasts and moulds – Colony-count technique in products with water activity (aw) of 0.60 or less	Maximum	***	Major	$1*10^3$ cfu/g									INSO 259-2:1391 Cl. 17 INSO 5689:1397 Cl. 6-5 INSO 10899-3:1392
	18	Comprehensive Method for Microorganism Enumeration – Colony Count at 30°C Using the Pour-Plate Method	Maximum	***	Major	$3*10^5$ cfu/g									INSO 259-1:1391 Cl. 5-6 INSO 5689:1397 INSO 5272-1:1393
	19	Method for the detection and enumeration of *Escherichia coli* using the Most Probable Number (MPN) technique	-	***	Critical	Negative									INSO 259-2:1391 Cl. 17 INSO 5689:1397 Cl. 6-4 ISIRI 2946:1384

The physicochemical test results for saffron comply with Standard No. 259-1, and the microbiological test results for saffron comply with Standard No. 5689 in all requirements: Complies ■ Does Not Comply ☐

Remarks: Export Department

Accredited Standard Laboratory
Paniz Shahd Binaloud Parsian

APPROVED

* Decision rule for the statement of conformity adopted by the laboratory: the simple acceptance rule (pass/fail) without a guard band (W = 0) is used.
* The laboratory assumes no responsibility for the sampling performed.
* The test results presented above apply solely to the sample submitted to the laboratory.
* The retention period for the laboratory's retained sample is 3 months from the date of report issuance.
(For products whose expiry date is less than 3 months away, the sample will be retained until its expiry date.)

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