

Analysis Report

Sample: Saffron Filaments 6gr – Grade A

(1) Reference: 388 SN

(1) Lot No: S00388

(1) Sampling Date: 09/12/2025

(1) Sampling carried out by: QC Department

Reception date: 09/12/2025

Starting date: 10/12/2025

Finishing date: 10/12/2025

Analysis	Unit	Method	Results	Limits ISO 3632-2:2011
Moisture and volatile content (%)	MAX w/w%	Gravimetric ISO 3632-2-2011	8.5	Max. 12
Foreign matters of plant	MAX w/w%	Gravimetric ISO 3632-2-2011	Absent	1-2
Foreign matters of environment	MAX w/w%	Gravimetric ISO 3632-2-2011	Absent	Absent
Total ashes (%) (on dry matter)	MAX w/w%	Gravimetric ISO 3632-2-2011	5	Max.7
Principal characteristics using the spectrophotometric U.V.–Visible method		ISO 3632-2:2011		
Crocin (on dry matter) units	Absorption @ 440 NM	ISO 3632-2:2011	281.53	Min.150
Safranal (on dry matter) units	Absorption @ 330 NM	ISO 3632-2:2011	35.40	20-50
Picrocrocin (on dry matter) units	Absorption @ 257 NM	ISO 3632-2:2011	104.48	Min.70
Microbiological Analysis results based on ISO 3632 Grades Standards				
E.coli	Cfu/g	Absent	Absent	Absent
Salmonella	Cfu/g	Absent	Absent	Absent
Yeast	Cfu/g	Absent	N<100	N<100
Sulfite-reducing bacteria	Cfu/g	Absent	N<10	N<10
Extraction of Artificial Dyes				
Water-Soluble synthetic dyes				
Result	Unit	Method	Result	Minimum required performance limit
AMARANTH (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0
AZORUBINE (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0
ORANGE II (mg/kg)	-	HPLC (ISO 3632)	Absent	<2,0
PONCEAU 4R (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0
ROCELLINE (mg/kg)	-	HPLC (ISO 3632)	Absent	<2,0
QUINOLINE YELLOW (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0
SUNSET YELLOW (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0
TARTARAZIN (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0
YELLOW 2G (mg/kg)	-	HPLC (ISO 3632)	Absent	<1,0

Wahid Ahmad Ayoubi
Laboratory Director

Rahmatullah Rahmati
CEO

The results in this report refer only to the sample tested as received.

The data contained in this document will be incorporated into an automated data file under the responsibility of the Afghanistan National Union of Herat Province, whose purpose is the full management of the services offered by the Professional Association, among which is the preparation of analysis

Herat Saffron Ltd