

**ANALYSIS REPORT****NEGIN SAFFRON****ALL RED**

Ref.No: JP-08231

Dec.12,2020

Classification by physical criteria of saffron in filaments				Sample weight: 500 gr			
Sample code: 1210515-4		LOT# : P-230		Sampling date: Nov.30,2020			
Sample type: Negin (All red)				Date of issue results: Dec.12,2020			
No	Characteristics	Test Method	Categories			Premium	Test Result
			1	2	3		
1	Floral waste (mass fraction), % max.	ISO 36-32 2:2010,Clause 8	0.5	3	5	0.5	0.5
2	Foreign matter (mass fraction), % max.	ISO 36-32 2:2010,Clause 9	0.1	0.5	1	0.1	0.001
3	Moisture & volatile Matter content (mass fraction), % max	ISO 36-32 2:2010,Clause 7	12	12	12	12	6
4	Total ash (mass), on dry matter, % max	ISO 928 & 36-32 2:2010, Clause 12	6	7	7	5.5	4.5
5	Acid insoluble Ash(Mass on dry matter, %max	ISO 941 & 36-32 2:2010, Clause 12	1	1.5	1.5	0.5	0.4
6	Soluble extract in cold water (mass fraction) on dry matter, %max	ISO 3632 2:2010,Clause13	65	65	65	65	60.5
7	Flavor strength (expressed as Picrocrocine) 1 Cm % 257nm, on dry matter, min. (at this wave length it has a maximum absorbency of Picrocrocine)	ISO 3632 2:2010, Clause 14	80	70	70	85	90
8	Aroma strength (expressed as Safranal) Cm% 330nm, on dry matter, min 20 max50 (at this wave length it has a maximum absorbance of Safranal)	ISO 3632 2:2010, Clause 14	20-50	20-50	20-50	20-50	29
9	Colouring strength (expressed as Crocine) Cm 1% 440nm, on dry matter, min (at this wave length it has a maximum absorbency of Crocrocine)	ISO 3632 2:2010, Clause 14	200	180	150	220	239
10	Artificial, water-soluble acid colorants	ISO 3632-2:2010 Clause 16-17	Neg.	Neg.	Neg.	Neg.	Neg.

1- The test of saffron is measured in the seventh row of this test sheet. It should be able to have at least 85 picrocrocine index number. In saffron that we tested the number related to this index was 90.

2- The aroma of saffron is measured in the eighth row of this index, should show a number between 20-50 and our saffron

3- The coloring power of saffron in this experiment can be found in the ninth row. The color in saffron is due to the presence of crocrocine in saffron.

4- Negin grade is 100% natural and a first class saffron