



**CHEMICAL ANALYSIS**

**BACH NUMBER # PARS SAFFRON** Sample weight: 15 gr Date of receiving Sample : 2018-07-15  
**Name of exporter: TARVAND SAFFRON** Date of issuing results: 2018-07-20  
**SAFFRON: PUSHAL CAT1**

No	Characteristic	Results	Categories				Test Method		
			FILAME NT CUT	FILAMENT				ISIRI NUMBER	
				SUP ERB	1	2			3
1	Moisture and Volatile Matter %(m/m) Max	7.41	10	10	12	12	12	259-2 IRAN Standard	
2	Extraneous Matter (% max) Environmental extraneous matter	0.00 Negative	0.1 negative	1 negative	2 negative	2 negative	2 negative	259-2 IRAN Standard	
3	Total Ash (%m/m) on dry basis max	6.24	5.5	6	7	7	7	1197 IRAN Standard	
4	Ash insoluble in HCL on dry basis (%m/m)	1.1	0.5	1	1.5	1.5	1.5	1253 IRAN Standard	
5	Solubility in Cold water, %(m/m) on dry basis max	59.68	65	65	65	65	65	12185 IRAN Standard	
6	Bitterness/ expressed as direct react reading of the absorbance of Picrocrocin at about 257nm/on dry basis/min	80.59	85	80	70	70	70	259-2 IRAN Standard	
7	Safranal/expressed as direct react reading of the absorbance of Picrocrocin at about 330 nm/on dry basis	35.14	20-50	20-50	20-50	20-50	20-50	259-2 IRAN Standard	
8	Coloring strength expressed as direct reading of the absorbance of Crocin at about 440 nm/on dry basis.min	225.61	220	200	180	150	140	259-2 IRAN Standard	

Remarks: the result of the analysis exclusively limited to the sample delivered to the laboratory which is in according with the standard and the grade **PUSHAL CAT1**

ANALYST <b>S.HADIZADEH</b> Quality Control	<b>M. AKBARNEJAD</b> Quality Assurance	<b>M. AKBARNEJAD</b> Standard Expert License Number:4010	CERTIFIED
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No	Characteristic	Results	Categories				Test Method	
			CUT FILAMENT CUT	FILAMENT				
				SUPERB	1	2		3
9	Extraction and distinction of the added colors	Negative	Negative	Negative	Negative	Negative	Negative	259-2 IRAN Standard
10	Identification of saffron pigments	5.95	6	6	6	6	6	259-2 IRAN Standard
11	Total Nitrogen content (%m/m) max	2.85	3	3	3	3	3	1522 IRAN Standard
12	Fiber on dry basis (%m/m) max	5.69	6	6	6	6	6	3394 IRAN Standard
13	Marking	suitable	Suitable	Suitable	Suitable	Suitable	Suitable	259-1 IRAN Standard
14	Style with Stigma (%m/m) max	3.85	0.5	5	10	20	30	259-2 IRAN Standard

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**MICROBIOLOGICAL ANALYSIS**

**BACH NUMBER # PARS SAFFRON** Sample weight: 15 gr Date of receiving Sample : 2018-07-15  
**Name of exporter: TARVAND SAFFRON** Date of issuing results: 2018-07-20  
**SAFFRON: PUSHAL CAT1**

NO	Characteristic	Results	ACCEPTABEL RANGE	Test Method
1	enumeration of microorganisms	7.99*10 <sup>2</sup>	3*10 <sup>5</sup>	5272-1 IRAN Standard
2	Enumeration Of ESCHERICHIA	Negative	Negative	2946 IRAN Standard
3	Enumeration Of YEASTS	1.91*10 <sup>2</sup>	10 <sup>3</sup>	10899-3 IRAN Standard

Remarks: the result of the analysis exclusively limited to the sample delivered to the laboratory which is in according with the standard .

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