

## Specification Sheet

Revised Date: 06/18/2019

<b>Product:</b> STD Saffron Extract	<b>Product Name:</b> Zaffronel®	
<b>Product Code:</b> ZAF1	<b>Technical Administrator:</b> Mary Gabriel <i>Mary Gabriel</i>	
<b>PLANT SPECIES:</b> Crocus Sativus L	<b>Part used:</b> Stigmas	
<b>SOURCE:</b> Spain	<b>Harvest Time:</b> Sept-Oct	
<i>Complies with all current USP/NF</i>		
<b>Standardization:</b> Ethanol/Water: 80/20	<b>Residue solvent:</b> <1,000ppm (USP<467>)	
Item	Specification	Method of Analysis

<b>Appearance:</b>	Red to Rusty Orange powder	Visual
<b>Identity:</b>	Presence of safranal and crocin	UV/Vis (ISO3632-2-2010) Organoleptic, FT-IR

**Odor/Taste:** Characteristic of Saffron

<u>Active Ingredients</u>	<u>Specification</u>	<u>Method of Analysis</u>
Safranal	0.03-0.07%	HPLC/Internal method
Crocin	≥ 4%	HPLC/Internal method
<b>Recommended Dosage (based on study): 28mg/day</b>		
<u>Pesticide Evaluation</u>	Absent/ND	GC-MS, USP 31, NF26 & Eur. Pharm(2.8.13)
<u>Heavy metals</u>	<5mg/kg	
Arsenic	<1.50mg/kg	
Cadmium	<0.50mg/kg	
Copper	<0.50mg/kg	Eur. Pharm (2.4.27)
Lead	<0.50mg/kg	
Mercury	<1.50mg/kg	
Zinc	<0.50mg/kg	
<u>Granulation/Particle Size</u>		
% thru US #100	50% max	USP36/NF31/Eur.Pharm (2.9.12)
% thru EU180 μ	100%	
<u>Bulk Density</u>	0.4-0.7g/ml	“ “ (2.9.15)
<u>PH (in H2O solution)</u>	4-6	“ “ (2.2.3)
<u>Moisture</u>	<6.0% max	“ “ (2.4.17)
<u>Microbiological* guaranteed at time of delivery only</u>		
Total plate Count	<10,000 cfu/g (complying w/USP method & Eur.ed.2.6.12)	AOAC 966.23
Yeast and Mold	<100 cfu/g	FDA-BAM 7 <sup>th</sup> ed.
Coliforms	<20 cfu/g	AOAC 966.23
E.Coli	negative	AOAC 966.23
Pseudomonas	negative	AOAC /BAM
Salmonella	negative	AOAC /BAM
Staph Aureus	negative	AOAC /BAM

**Ingredients:** 100% Standardized Saffron Stigmas, no chemicals or additives, No ETO Treatment & No irradiation.

85% native extract and 15% Maltodextrin

**Storage Conditions & shelf life:**

\*Store in a cool, dry place, do not freeze. Shelf life is three (3) years if handled properly (stability study available)