

Product Specification			
Product Name:	Astaxanthin + Vitamin C PS		
Item Number:	CAT2019	Version No.	01

Physical Characteristics			
Parameter	Spec limit (per unit)	Units	Method
Color*	Red		SOP MAN-0000037
Flavor	Cherry		SOP MAN-0000037
Shape	Berries		SOP MAN-0000037
Average Weight	3.0 ±10%	gr	SOP MAN-0000037
Coating	Sugar		

Composition			
Ingredient	**Spec limit (Per unit)	Units	Method***
Astaxanthin (From Astaxanthin powder 3%)	≥4.0	mg	
Vitamin C (as ascorbic acid)	≥50.0	mg	
Other Ingredients	Glucose syrup, Sugar, Water, Pectin, Natural flavor, Color (Black carrot concentrate), Trisodium citrate, Sodium ascorbate.		

Microbiology			
	Spec limit	Units	Method
Total viable aerobic count (TAMC)	<1000	CFU/g	
Total combined Yeast/Mold (TYMC)	<100	CFU/g	
Bile tolerant GR NEGATIVE bacteria	<10	CFU/g	

Heavy Metals****			
	Spec limit	Units	Method
Mercury	<0.1	ppm	
Cadmium	<0.15	ppm	
Lead	<0.5	ppm	
Arsenic	<1	ppm	

Certifications	
	Yes / No
Kosher	Yes
Halal	Yes
Gluten-free	Yes
Top-Gum is certified according to the following standards:	ISO 9001, FSSC: 22000, BRC and GMP

Storage and Shelf Life	
Storage Conditions	Product should be stored in an unopened packaging, at room temperature, and not above 25°C, dry place and out of direct sunlight or spotlight.
Shelf Life	The recommended product shelf life is twenty-four (24) months***** from the date of manufacture, packaged not later than 6 months from manufacturing date, in unopened and sealed HDPE or PET bottle with aluminum foil seal in accordance with Storage Conditions.
Packaging	1 kg PET/PP bags bulk packaged

* Due to the fact of using only natural coloring agents, the color of the product might change if not stored according to the recommended storage conditions.

** The tolerances values for vitamins and minerals are according to the required by the customer.

*** The test methods and the frequency of the tests will be performed according to the company's internal procedures as determined by it from time to time, or as set forth in a purchase order or agreement between Top Gum and the customer.

**** Tests are performed periodically according to our SOP

***** Based on 6 months accelerated study was conducted on a sealed HDPE or PET bottle with aluminum foil seal, at 35°C and 60% RH

Allergen	As an ingredient		Risk for cross-contamination		
	Yes	No	Used in the same line	Used in the same plant	Specify the allergens present of this group
Cereal protein (e.g., wheat, barley, rye, oats etc.) gluten and products thereof		X			
Crustaceans and products thereof		X			
Eggs and products thereof		X			
Fish and products thereof		X	X		Fish Gelatin
Peanuts and products thereof		X			
Tree Nuts: Almond, Beech nut, Butternut, Buckwheat, Chestnut, Coconut, Ginko nut, Hickory nut, Lychee Nut, Macadamia Nut/Bush Nut, Pecan, Pine Nut/Pinon Nut, Pistachio, Sheanut, Walnut, Filbert/Hazelnut, Cashew, Brazil nut. and products thereof		X			
Soybeans and products thereof		X			
Milk and products thereof		X			
Celery and products thereof		X			
Mustard and products thereof		X			
Sesame seeds and products thereof		X			
Sulphur Dioxide and sulphites (concentrations > 10 mg/kg or 10 mg/L)		X			
Lupines and products thereof		X			
Molluscs and products thereof		X			

TopGum Approval			
Position	Name	Signature	Date
R&D manager	Miri Ritz		27.04.23
Customer Approval			