

SPECIFICATION SHEET

PRODUCT	CARMINEX™ LIQUID 3,5%	Product code	Carmin 23
		Common Name	Carmine solution in wáter 3,5%
Synonyms	Natural Red 4. C.I. 75470. Chemical Abstracts Service (CAS) registry number 1390-65-4. E 120, INS 120		
Material Description	Obtained from a water solution of Cochineal (<i>Dactylopius coccus costa</i>). Carmine alkalized to pH 10-12 with sodium Hydroxide. Propylene glycol is added to prevent microbiological attacks.		
Shelf life	Two years.		

Approval	Carminex™ Liquid 3,5% is in full compliance with the directives of the European Union Colour n° E 120 UE 2018/1472, JECFA, the National Formulary and 21 CFR 73.100 for Cochineal derivatives.		
Composition	Carmine	6,2%	
	Sodium hydroxide	0,7%	
	Propylene glycol	15%	
	Water	78,1%	
Stability	Highly resistant to light oxidation, change in pH, microbiological attacks. Very stable toward heat up to 130 centigrade degrees, but unstable above that temperature		
Application- Recommended dosage	Food industry: dairy desserts, processed cheese, ice cream, jams, sauces, processed meat, confectionery, snacks, alcoholic beverage, baked goods. The FDA list the carmine among the colours permitted in food without limitation and exempt from certification. ADI: In amounts consistent with good manufacturing practice and according to the current food legislation of each country.		
Nutritional data	Proteins	1,40%	
	Lipids	0 %	
	Carbohydrate	0 %	
	Sodium	0,40 %	

PHYSICO-CHEMICAL REQUIREMENTS:

Appearance	Dark liquid solution										
Concentration	3,5+/- 0,5% as Carminic Acid, under the Food Chemical Codex FCCVII analytical method										
Colour value (E1% 1cm)	7 – 10										
Solubility	100% miscible in water and alcohol without solid residual.										
Protein content (N x 6,25)*	Not more than 25%										
pH (1%)	10 -12										
Total ash*	Not more than 12%										
4-aminocarminic acid*	Not more than 3% relative to carminic acid										
Matter insoluble in dilute ammonia*	Not more than 1%										
Heavy metals*	<table> <tr> <td>Aluminium</td> <td><0,05%</td> </tr> <tr> <td>Mercury</td> <td><0,5 ppm</td> </tr> <tr> <td>Lead</td> <td><1,5 ppm</td> </tr> <tr> <td>Arsenic</td> <td><1 ppm</td> </tr> <tr> <td>Cadmium</td> <td><0,1 ppm</td> </tr> </table>	Aluminium	<0,05%	Mercury	<0,5 ppm	Lead	<1,5 ppm	Arsenic	<1 ppm	Cadmium	<0,1 ppm
Aluminium	<0,05%										
Mercury	<0,5 ppm										
Lead	<1,5 ppm										
Arsenic	<1 ppm										
Cadmium	<0,1 ppm										

MICROBIOLOGICAL REQUIREMENTS:

Total plate count	Not more than 1000ufc/g
Mould count	not more than 100ufc/g
Yeast count	not more than 100ufc/g
Coliforms*	<3 NMP/g
Staphylococcus aureus*	<3 NMP/g
E coli*	<3 NMP/g
Salmonella spp**	Absent in 10 gr

*Analysis performed periodically.

**Analysis performed by 50 lots composite.

PACKING AND STORE CONDITIONS:

Store conditions	At normal temperature. Store in a dry location (5-30°C). No refrigeration needed. Prevent from humidity.
Packing	Plastic sealed bottles of 5 or 20 Kg in plastic pallets

Date : January 29, 2021

Version: 3




CERTIFICATES AND CONFORMITY:

BRC	Certified
HALAL	Certified
KOSHER	Certified
ALLERGEN	Allergen free
BSE/TSE	No BSE/TSE
GMO Status	Non - GMO
Non irradiated	Yes

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