

## SPECIFICATION SHEET

<b>PRODUCT</b>	<b>CARMINEX™ ACID 90%</b>	Product code	ACAR 02
		Common Name	Carminic Acid 90%
Synonyms	Natural Red 4. C.I. 75470. Chemical Abstracts Service (CAS) registry number 1260-17-9. E 120, INS 120		
Material Description	It is the free colouring matter <b>Carminic Acid</b> with purity not less than 90%, obtained from an aqueous-alcoholic extract of cochineal ( <i>Dactylopius Coccus Costa</i> ). It is free of metals like calcium and aluminium. This is the difference with carmine.		
Shelf life	Two years.		

Approval	<b>Carminex™ Acid 90%</b> 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	Carminic acid	96 %	
	Maltodextrine	4 %	
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	Confections, beverages, fruit preps, candies, low pH products. ADI: In amounts consistent with good manufacturing practice and according to the current food legislation of each country.		
Nutritional data	Proteins	1 %	
	Lipids	0 %	
	Carbohydrate	4%	
	Sodium	0,2%	

PHYSICO-CHEMICAL REQUIREMENTS:

Appearance	Fine dark orange powder
Concentration	90% + -2% as Carminic Acid, under Food Chemical Codex (FCCIII) analytical method.
Colour value (E10% 1cm)	Not less than 1450
Protein content (Nx 6,25)*	Not more than 2,2%
Solubility	Completely soluble in water in all range of pH, in alcohol and propylene glycol
Particle Size	100% mesh 200
Loss on drying	Not more than 10%
Total ash*	Not more than 5%
4-aminocarminic acid*	Not more than 3% relative to carminic acid
Matter insoluble in dilute ammonia	Not more than 1%
Solvent residues*	Ethanol : Not more than 150 mg/Kg Methanol: Not more than 50 mg/Kg
Heavy metals*	Mercury Not more than 0,5 ppm Lead Not more than 1,5 ppm Arsenic Not more than 1 ppm Cadmium Not more than 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, not per lot.

\*\*Analysis performed by 50 lots composite.

Date : January 19, 2021

Version: 15



PACKING AND STORE CONDITIONS:

Store conditions	At normal temperature. Store in a dry location (5-30°C). No refrigeration needed. Prevent from humidity.
Packing	Double polyethylene bags of 5, 25 or 50 Kg. inside a cardboard box.

CERTIFICATES AND CONFORMITY:

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

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