



## SPECIFICATION SHEET

<b>PRODUCT</b>	<b>CARMINE LAKE HT 52%</b>	Product code	CARMIN 11
		Common Name	Carmin lake 52%
Synonyms	Natural red 4 CI 75470. Chemical Abstracts Service (CAS) registry number 1390-65-4. E 120, INS 120		
Material Description	It is a Carmine Lake presented under the form of a Red dye powder, obtained from the aqueous extract of cochineal ( <i>Dactylopius coccus costa</i> ), which under certain conditions gives a complex aluminium calcium salt, known under the name NATURAL CARMINE. This dye has a strong covering power that gives special high red tone in final applications, and is composed of very small-sized particles.		
Shelf life	Two years		

Approval	<b>Carmine Lake HT 52%</b> 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	90%	
	Maltodextrine	10%	
Stability	Highly resistant to light oxidation, change in pH and microbiological attacks. Very stable toward heat up to 130 centigrade degrees, but unstable above that temperature.		
Application- Recommended dosage	Specially elaborated for using in <b>DRY MIXES</b> in the food industry (dairy desserts, processed cheese, ice cream, jams, sauces, processed meat, confectionery, snacks, alcoholic beverage, baked goods), cosmetics and pharmaceutical industries. ADI: In amounts consistent with good manufacturing practice and according to the current food legislation of each country.		

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Nutritional data	Proteins	21 %
	Lipids	0 %
	Carbohydrate	10 %
	Sodium	0,1 %

**PHYSICO-CHEMICAL REQUIREMENTS:**

Appearance	Brilliant fine red powder	
Concentration	52 +/- 2% as Carminic Acid, under the Food Chemical Codex FCCVII analytical method. The final concentration is adjusted with maltodextrine GMO free.	
Colour value (E1% 1cm)	118- 124	
Solubility	Not soluble in neutral water, ethanol, and propylene glycol. Completely soluble in alkaline water.	
Protein content (N x 6,25)*	Not more than 25%	
Particle Size	100% mesh 300	
Loss on drying	Not more than 15%	
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*	Aluminium	Not more than 1,30%
	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
	Other heavy metals	Not more than 10 ppm
Solvent residues*	Ethanol	: Not more than 150 mg/Kg
	Methanol	: Not more than 50 mg/Kg

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**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 10 lots composite.

**PACKING AND STORE CONDITIONS:**

Store conditions	Two years 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 fibre drum.

**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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