



TECHNICAL DATA SHEET

002036-TDS-ENG-2024

ACIDO KOJICO		
DESCRIPTION DCI: KOJIC ACID		DESCRIPTION DOE: KOJICO ACIDO
CAS Nº: 501-30-4	EC Nº: 207-922-4	AEMPS CODE: 8756A
MOL. WEIGHT: 142.11	MOL. FORMULA: C6H6O4	ARTICLE CODE: 002036

ATTRIBUTES	SHOULD BE
Appearance	Almost white or pale yellow crystals
Solubility	Freely soluble in water, ethanol, acetone, and ethyl acetate. Sparingly soluble in ether, acetone, chloroform and pyridine
Identification	Complies
Melting point	152.0 - 156.0 °C
Heavy metals	=< 3 ppm
Iron	=< 10 ppm
Chlorides	=< 100 ppm
Lead	=< 3 ppm
Arsenic	=< 1 ppm
Mercury	=< 1 ppm
Cadmium	=< 5 ppm
Residue on ignition	=< 0.2 %
Loss on drying	=< 1.0 %
Assay	=> 99.0 %
Microbiological control	
TAMC	=< 1000 CFU/g
TYMC	=< 100 CFU/g

COMPLIES WITH

Especificaciones fabricante

STORAGE

Keep the container closed and away from incompatible materials.

REMARKS

Product only suitable for cosmetic use.

Properties and uses

It is a phenol derivative obtained by fermentation of rice, or by fermentation using several species of molds. It has application for the treatment of hyperpigmentation, since it inhibits melanogenesis. On the one hand it inhibits a tyrosinase by chelation of the copper it contains, and on the other it induces a reduction of eumelanin in the hyperpigmented cells. It has application in creams, lotions, and ointments for melasmas, lentiginosis, pregnancy spots, stains due to the use of contraceptive pills, age spots, to clear freckles, etc ... It is a bleaching agent that can be formulated together with hydroquinone or alpha-hydroxy acids (except in sensitive skins) to enhance this action. It is also used for the treatment of topical acne lesions, since it has a moderate antibiotic effect. It is usually associated with an SPF > 15. It does not cause irritation or is cytotoxic.

Dosage

Topical route, at 0.5 - 5%.

Side effects



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After continued use can cause skin irritation and the appearance of contact dermatitis.

Formulation examples

Creams with KOJIC ACID and hydroquinone

KOJIC ACID - **2 %**

Hydroquinone - **3 %**

Glycolic acid - **6 %**

Cream Lanette c.s.p. - **30 g**

KOJIC ACID - **2 %**

Hydroquinone - **3 %**

Hydrocortisone base - **1 %**

Retinoic acid-trans - **0.05 %**

Cream Lanette c.s.p. - **30 g**

Cream W / S with KOJIC ACID

KOJIC ACID - **5 %**

Cream W / S c.s.p. - **100 g**

Modus operandi: Prepare the W / S cream with Emulsifier F5 (see corresponding technical data sheet), dissolving the KÓJICO ACID in the purified water (without heating too much).

Gel with KOJIC ACID

KOJIC ACID - **2 %**

Gluconolactone - **4 %**

Dragosanthol - **1 %**

Hydroxyethylcellulose gel c.s.p. - **20 g**