



GALACID COSMETIC 90

LACML90 / *galactic ref.*

ULTRA PURE LACTIC ACID 90% COSMETIC / *product name*

DESCRIPTION

GALACID COSMETIC 90 is a natural L (+), heat-stable lactic acid produced by fermentation of sugar. It is of highest purity, odor- and colorless. GALACID COSMETIC 90 is specially designed to meet the highest quality standards for the cosmetics and personal care industry.

GALACID COSMETIC 90 is an active, safe, multi-functional ingredient, naturally present in the body and skin, usable in a wide range of cosmetics and personal care formulations.

Easy to use and compatible with many ingredients, GALACID COSMETIC 90 offers cosmetic benefits such as pH regulation, preservation, anti-ageing (AHA) action, exfoliation, moisturization, humectancy and skin-lightening action.

PHYSICO-CHEMICAL PROPERTIES

Chemical name		2-Hydroxypropanoic acid
Molecular weight	<i>g/mol</i>	90
Molecular formula		C ₃ H ₆ O ₃
Density (@20°C/68°F)	<i>g/mL</i>	1.20 - 1.21
Solubility	-	Soluble in water and ethanol

SENSORY CHARACTERISTICS

Colour (fresh solution)	<i>Hazen</i>	Max. 10
Colour after heating (@200°C/392°F, 2h)	<i>Hazen</i>	Max. 20
Odour	-	Odorless
Taste	-	Mild acid

PURITY

Positive test for lactate	-	Passes test
Total acidity (as lactic acid)	<i>% w/w</i>	Min. 90
Stereochemical purity	<i>% L(+)</i>	Min. 99
Heavy metals (as Pb)	<i>ppm</i>	Max. 5
Iron	<i>ppm</i>	Max. 5
Calcium	<i>ppm</i>	Max. 5
Chloride	<i>ppm</i>	Max. 5
Sulphate	<i>ppm</i>	Max. 10
Sulphated ash	<i>% w/w</i>	Max. 0.01
Cyanide	<i>ppm</i>	Max. 0.5
Lead	<i>ppm</i>	Max. 0.5
Arsenic	<i>ppm</i>	Max. 1
Mercury	<i>ppm</i>	Max. 0.5
Reducing substances (sugars)	-	Passes test
Citric, oxalic, tartaric and phosphoric acids	-	Passes test
Methanol and methyl esters	-	Not detectable
Volatile fatty acids	-	Passes test
Readily carbonizable substances	-	Passes test
Ether - insoluble substances	-	Passes test

REGISTRATION

Labeling ⁽²⁾		Lactic acid - E 270 - Lactic acid of natural origin - Lactic acid made by fermentation
CAS number		79-33-4
GRAS status		Yes
INCI name		Lactic acid
Complies with		EP ⁽¹⁾ - USP ⁽¹⁾ Kosher - Halal
COSMOS approved		Raw material approved by Ecocert Greenlife according the COSMOS cosmetic standards

PACKAGING

See packaging list

STORAGE CONDITIONS

Dry, well-ventilated room



SHELF-LIFE

48 months

LEGEND

⁽¹⁾ Latest edition

⁽²⁾ Several designations are allowed subject to the local regulations