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PRODUCT STANDARD

PRODUCT NAME : **ALPHA LIPOIC ACID-P** (FOOD)

This product guarantees a minimum of 98.0 % α -lipoic acid (thioctic acid, 1,2-dithiolane-3-pentanoic acid).

Appearance

Light yellowish or yellowish crystalline powder. It has no smell or lightly unique smell. Soluble in chloroform and ethanol. Slightly soluble in water.

Certification Test

α -Lipoic Acid

Melting Point

Loss on Drying

Ignition Residue

Purity Test

(1)6,8-Epitrithiooctanoic acid

(2)Polymer

(3)Heavy Metals (as Pb)

(4)Arsenic (as As₂O₃)

The maximum absorbance wave length : 331 - 335 nm.
The minimum absorbance wave length : 278 - 283 nm.
Min. 98.0 % (HPLC)
60 - 63°C (The Japanese Standards for Food Additives)
Max. 0.5 % (Analysis for Hygienic Chemists, 1g, 40°C, reduced pressure, P₂O₅, 4 h)
Max. 0.1 % (The Japanese Standards for Food Additives)

Standard Plate Counts

Moulds and Yeasts

Coliforms

Residual Solvents

(1)Ethanol

(2)Other Solvents

Acetone

Cyclohexane

Dichloromethane

Ethyl acetate

Hexane

MTBE

Toluene

Max. 1×10³ cfu/g (Analysis for Hygienic Chemists)
Max. 1×10² cfu/g (Analysis for Hygienic Chemists)
Negative (Analysis for Hygienic Chemists)
Max. 0.1 % (GC)
Not detected (Less than 1 ppm) (GCMS)
Not detected (Less than 1 ppm) (GCMS)
Not detected (Less than 1 ppm) (GCMS)
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Composition

<u>Ingredient</u>	<u>Content</u>
Thioctic Acid	100 %

Expiry date

Storage

2 years from date of manufacturing.
Store it in a cool, dry, ventilated area with desiccant.
Keep it away from high temperature and sunlight, and store it in a closed container.

Established Date	June 25, 2004
Revised Date	May 9, 2024
Specification No.	T-409EN