



## ORYZA OIL & FAT CHEMICAL CO.,LTD.

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### PRODUCT STANDARD

PRODUCT NAME : **ALPHA LIPOIC ACID-PC80** (COSMETIC)

This product guarantees a minimum of 80.0 %  $\alpha$ -lipoic acid (thioctic acid, 1,2-dithiolane-3-pentanoic acid).

#### Appearance

Slight yellow or yellow powder.

It has odorless or slightly characteristic odor.

#### Identification

The maximum absorbance wave length : 331 - 335 nm.

The minimum absorbance wave length : 278 - 283 nm.

#### $\alpha$ -Lipoic Acid

Min. 80.0 % (HPLC)

#### Loss on Drying

Max. 0.5 % (Analysis for Hygienic Chemists, 1g, 40°C, reduced pressure, P<sub>2</sub>O<sub>5</sub>, 4 h)

#### Ignition Residue

Max. 0.1 %

#### Purity Test

##### (1)6,8-Epitrithiooctanoic acid

Max. 0.1 % (HPLC)

##### (2)Heavy Metals (as Pb)

Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)

##### (3)Arsenic (as As<sub>2</sub>O<sub>3</sub>)

Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)

#### Standard Plate Counts

Max. 1×10<sup>2</sup> cfu/g (Analysis for Hygienic Chemists)

#### Moulds and Yeasts

Max. 1×10<sup>2</sup> cfu/g (Analysis for Hygienic Chemists)

#### Coliforms

Negative (Analysis for Hygienic Chemists)

#### Residual Solvents

##### (1)Ethanol

Max. 0.1 % (GC)

##### (2)Other Solvents

###### Acetone

Not detected (Less than 1 ppm) (GCMS)

###### Cyclohexane

Not detected (Less than 1 ppm) (GCMS)

###### Dichloromethane

Not detected (Less than 1 ppm) (GCMS)

###### Ethyl acetate

Not detected (Less than 1 ppm) (GCMS)

###### Hexane

Not detected (Less than 1 ppm) (GCMS)

###### MTBE

Not detected (Less than 1 ppm) (GCMS)

###### Toluene

Not detected (Less than 1 ppm) (GCMS)

#### Composition

Ingredient	Content (Values are just a guide)
Thioctic Acid	80 %
Hydrogenated Rapeseed Oil	20 %
Total	100 %

#### Expiry date

2 years from date of manufacturing.

#### Storage

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	March 23, 2006
Revised Date	May 9, 2024
Specification No.	T-409EN