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PRODUCT STANDARD

PRODUCT NAME : **ALPHA LIPOIC ACID-P80** (FOOD)

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

Appearance

Slight yellowish or yellowish powder.
It has no smell or slightly unique smell.

Certification Test

The maximum absorbance wave length : 331 - 335 nm.
The minimum absorbance wave length : 278 - 283 nm.

α -Lipoic Acid

Min. 80.0 % (HPLC)

Loss on Drying

Max. 0.5 % (Analysis for Hygienic Chemists,
1g, 40°C, reduced pressure, P₂O₅, 4 h)

Ignition Residue

Max. 0.1 % (The Japanese Standards for Food Additives)

Purity Test

(1)6,8-Epitrithiooctanoic acid

Max. 0.1 % (HPLC)

(2)Heavy Metals (as Pb)

Max. 10 ppm (Sodium Sulfide Colorimetric Method)

(3)Arsenic (as As₂O₃)

Max. 1 ppm (Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)

Standard Plate Counts

Max. 1×10³ cfu/g (Analysis for Hygienic Chemists)

Moulds and Yeasts

Max. 1×10² 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 %
Vegetable Oils & Fats	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, 2005
Revised Date	May 10, 2024
Specification No.	T-410EN