



ORYZA OIL & FAT CHEMICAL CO.,LTD.

1 Aza Numata Kitagata Kitagata-cho Ichinomiya-city, Aichi-prefecture 493-8001 JAPAN
 Phone:+81-586-86-5141 Facsimile:+81-586-86-6191
 URL/http://www.oryza.co.jp/ E-mail:info@oryza.co.jp

PRODUCT STANDARD

PRODUCT NAME : **ALPHA LIPOIC ACID-L1** (FOOD)

This product is water-soluble liquid which emulsified α -lipoic acid (thioctic acid, 1,2-dithiolane-6-pentanoic acid)to soluble. It contains minimum of 10.0 % α -lipoic acid.

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|--|--|---|
| <u>Appearance</u> | Slight yellowish liquid with unique smell. | |
| <u>α-Lipoic Acid</u> | Min. 10.0 % | (HPLC) |
| <u>Purity Test</u> | | |
| (1)Heavy Metals (as Pb) | Max. 10 ppm | (Sodium Sulfide Colorimetric Method) |
| (2)Arsenic (as As₂O₃) | Max. 1 ppm | (Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B) |
| <u>Standard Plate Counts</u> | Max. 1×10 ³ cfu/g | (Analysis for Hygienic Chemists) |
| <u>Moulds and Yeasts</u> | Max. 1×10 ² cfu/g | (Analysis for Hygienic Chemists) |
| <u>Coliforms</u> | Negative | (Analysis for Hygienic Chemists) |
| <u>Residual Solvents</u> | | |
| Solvents except Ethanol | Not detected | (Less than 0.1 ppm) (GCMS) |

Composition

| Ingredient | Content |
|--------------------------------------|---------|
| Glycerin Ester of Fatty Acid | 50 % |
| Propylene Glycol Ester of Fatty Acid | 23 % |
| Glycerin | 15 % |
| Thioctic Acid | 10 % |
| Ethanol | 2 % |
| Total | 100 % |

Expiry date 1 years from date of manufacturing.
Storage Keep it away from high temperature and sunlight, and store it in a closed container in a refrigerator.

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|-------------------|------------------|
| Established Date | February 1, 2005 |
| Revised Date | October 4, 2017 |
| Specification No. | Z-704EN |