



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

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### PRODUCT STANDARD

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

This product is water-soluble liquid which emulsified  $\alpha$ -lipoic acid (thioctic acid, 1,2-dithiolane-3-pentanoic acid) to soluble. It contains minimum of 10.0 %  $\alpha$ -lipoic acid.

<b><u>Appearance</u></b>	Slight yellowish liquid with unique smell.	
<b><u><math>\alpha</math>-Lipoic Acid</u></b>	Min. 10.0 %	(HPLC)
<b><u>Purity Test</u></b>		
<b>(1)Heavy Metals (as Pb)</b>	Max. 10 ppm	(Sodium Sulfide Colorimetric Method)
<b>(2)Arsenic (as As<sub>2</sub>O<sub>3</sub>)</b>	Max. 1 ppm	(Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)
<b><u>Standard Plate Counts</u></b>	Max. 1×10 <sup>3</sup> cfu/g	(Analysis for Hygienic Chemists)
<b><u>Moulds and Yeasts</u></b>	Max. 1×10 <sup>2</sup> cfu/g	(Analysis for Hygienic Chemists)
<b><u>Coliforms</u></b>	Negative	(Analysis for Hygienic Chemists)
<b><u>Residual Solvents</u></b>		
<b>Solvents except Ethanol</b>	Not detected (Less than 0.1 ppm)	(GCMS)
<b><u>Composition</u></b>		
	<b>Ingredient</b>	<b>Content (Values are just a guide)</b>
	Glycerin Ester of Fatty Acid	50 %
	Propylene Glycol Ester of Fatty Acid	23 %
	Glycerin	15 %
	Thioctic Acid	10 %
	Ethanol	2 %
	Total	100 %
<b><u>Expiry date</u></b>	1 years from date of manufacturing.	
<b><u>Storage</u></b>	Keep it away from high temperature and sunlight, and store it in a closed container in a refrigerator.	

Established Date	February 1, 2005
Revised Date	May 10, 2024
Specification No.	T-410EN