

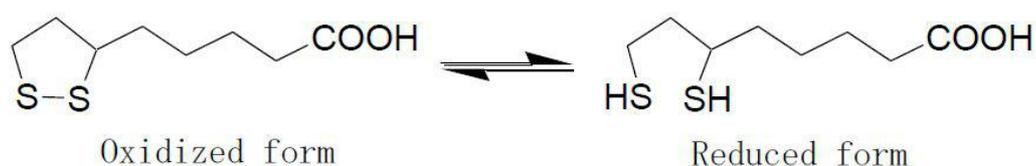
## Key Features

Alpha-lipoic acid (ALA) is a well-known and powerful antioxidant. Sila-plex<sup>®</sup> α-Lipoic acid is an inclusion complex of cyclodextrin and α-Lipoic acid with higher stability.

**CAS#** 7585-39-9, 1077-28-7

**INCI** Cyclodextrin /α-Lipoic acid

## Chemical Structure of ALA

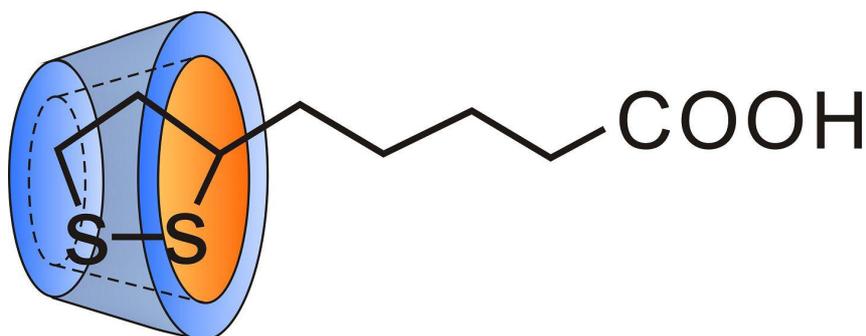


## Properties and benefits

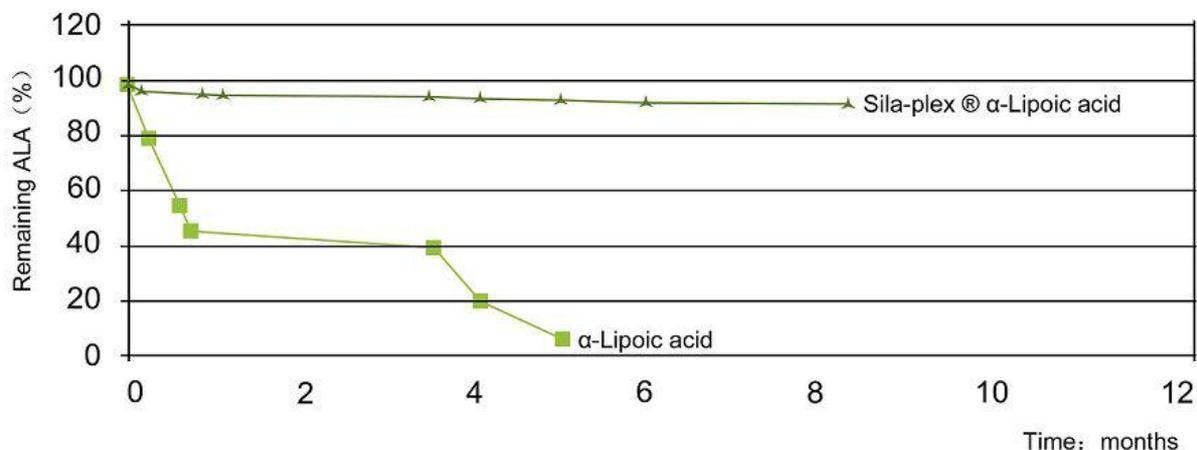
Alpha-lipoic acid (ALA) is a powerful, vitamin-like antioxidant. Unlike other antioxidants, which only work in water (i.e. vitamin C) or fatty tissues (i.e. vitamin E, coenzyme Q10), ALA is both fat- and water-soluble.

ALA has dual antioxidant capabilities. It is a potent antioxidant itself but the body also converts some of it to dihydrolipoic acid, which is even more powerful. Dihydrolipoic acid neutralizes both oxygen and nitrogen free radicals. ALA can regenerate other anti-oxidants such as vitamin C, vitamin E, coenzyme Q10 and glutathione, thus actually providing a recycling pathway for these vital antioxidants.

## Sila-plex<sup>®</sup> α-Lipoic acid



After inclusion of cyclodextrin, Sila-plex<sup>®</sup> α-Lipoic acid is more stable, soluble in water, and with less unpleasant odor.



## Applications

- 1 powerful anti-oxidant and anti- free radical
- 2 Lighting and whitening on skin care

## Specification

	Sila-plex <sup>®</sup> α-Lipoic acid 12%	Sila-plex <sup>®</sup> α-Lipoic acid 5%
Appearance	Pale yellow powder	Yeller liquid
Odor	characteristic odor	Weak odor
Assay	>12%	>5%
PH (1%)	4-5	4-5
Water	<5	/
Heavy Metal	<10	<10
T.P. C (cfu/gm)	<100	<100

## Dosage

- 1 0.5-5% as anti-oxidant
- 2 3-10% for lighting

## Storage

Storage at room temperature in sealed containers under dry conditions. Sila-plex<sup>®</sup> Menthol 10% has a shelf life of 2 years from the date on the delivery note.

## Package

Units of 1 kg, 20 kg

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