



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

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## PRODUCT STANDARD

PRODUCT NAME : **RED GINGER EXTRACT-LC** (COSMETIC)

This product is extracted from red ginger, the rhizome of *Zingiber officinale* var. Rubra, with aqueous ethanol and is dissolved in 1,3-butylene glycol. It guarantees minimum 0.1% [6]-gingerol and 0.01% tannin. A peak of 3R,5S-[6]-gingerdiol is observed in HPLC chromatogram.

<b><u>Appearance</u></b>	Orange to brown liquid with characteristic odor.
<b><u>[6]-gingerol and [6]-shogaol</u></b>	Min. 0.1 % (HPLC)
<b><u>Tannin</u></b> (Equivalent of procyanidin B <sub>2</sub> )	Min. 0.01 % (Vanillin · HCl method)
<b><u>3R,5S-[6]-gingerdiol</u></b>	A peak is detectable (HPLC)
<b><u>Purity Test</u></b>	
<b><u>(1)Heavy Metals (as Pb)</u></b>	Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)
<b><u>(2)Arsenic (as As<sub>2</sub>O<sub>3</sub>)</u></b>	Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)
<b><u>Standard Plate Counts</u></b>	Max. 1×10 <sup>2</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>Composition</u></b>	<u>Ingredient</u>	<u>Content</u>
	Butylene glycol	70%
	Water	29%
	<u>Zingiber Officinale (Ginger) Rhizome Extract</u>	1%
	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 sun light, and store it closed container.

Established Date	May 22, 2006
Revised Date	October 14, 2017
Specification No.	Z-714EN