



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

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### PRODUCT STANDARD

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

This product is extracted from red ginger, the rhizome of *Zingiber officinale* var. Rubra, with aqueous ethanol. It guarantees minimum 3.0% [6]-gingerol and [6]-shogaol, and 0.5% tannin. Moreover, a peak of 3R,5S-[6]-gingerdiol can be observed in HPLC chromatogram of this product.

<b><u>Appearance</u></b>	Yellowish white powder with characteristic odor and pungent flavor.	
<b><u>[6]-gingerol and [6]-shogaol</u></b>	Min. 3.0 %	(HPLC)
<b><u>Tannin</u></b>	Min. 0.5 %	(Vanillin · HCl method)
(Equivalent of procyanidin B <sub>2</sub> )		
<b><u>3R,5S-[6]-gingerdiol</u></b>	A peak is detectable	(HPLC)
<b><u>Loss on Drying</u></b>	Max. 10.0 %	(1g, 105°C, 2 hr)
<b><u>Purity Test</u></b>		
<b><u>(1)Heavy Metals (as Pb)</u></b>	Max. 20 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> (Values are just a guide)
	Cyclodextrin	67%
	<u>Zingiber Officinale (Ginger) Rhizome Extract</u>	33%
	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 13, 2020
Specification No.	Z-013EN