



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.

<u>Appearance</u>	Yellowish white powder with characteristic odor and pungent flavor.	
<u>[6]-gingerol and [6]-shogaol</u>	Min. 3.0 %	(HPLC)
<u>Tannin</u>	Min. 0.5 %	(Vanillin · HCl method)
(Equivalent of procyanidin B ₂)		
<u>3R,5S-[6]-gingerdiol</u>	A peak is detectable	(HPLC)
<u>Loss on Drying</u>	Max. 10.0 %	(1g, 105°C, 2 hr)
<u>Purity Test</u>		
<u>(1)Heavy Metals (as Pb)</u>	Max. 20 ppm	(The Second Method of The Japanese Standards of Quasi-Drug Ingredients)
<u>(2)Arsenic (as As₂O₃)</u>	Max. 1 ppm	(The Third Method of The Japanese Standards of Quasi-Drug Ingredients)
<u>Standard Plate Counts</u>	Max. 1×10 ² 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>Composition</u>	<u>Ingredient</u>	<u>Content</u>
	Cyclodextrin	67%
	<u>Zingiber Officinale (Ginger) Rhizome Extract</u>	<u>33%</u>
	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 19, 2018
Specification No.	Z-819EN