



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME : **RED GINGER EXTRACT-P** (FOOD)

This product is extracted from red ginger, the rhizome of *Zingiber officinale* var. Rubra, with aqueous ethanol. It guarantees minimum 6.0% [6]-gingerol and [6]-shogaol, and 1.5% tannin. Moreover, a peak of 3R,5S-[6]-gingerdiol can be observed in HPLC chromatogram of this product.

<u>Appearance</u>	Pale yellow or yellowish brown powder with unique smell and pungent flavor	
<u>[6]-gingerol and [6]-shogaol</u>	Min. 6.0 %	(HPLC)
<u>Tannin</u> (Equivalent of procyanidin B ₂)	Min. 1.5 %	(Vanillin · HCl method)
<u>3R,5S-[6]-gingerdiol</u>	A peak is detectable	(HPLC)
<u>Loss on Drying</u>	Max. 10.0 %	(Analysis for Hygienic Chemists, 1g, 105°C, 2 hr)
<u>Purity Test</u>		
<u>(1)Heavy Metals (as Pb)</u>	Max. 30 ppm	(Sodium Sulfide Colorimetric Method)
<u>(2)Arsenic (as As₂O₃)</u>	Max. 1 ppm	(Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)
<u>Standard Plate Counts</u>	Max. 3×10 ³ cfu/g	(Analysis for Hygienic Chemists)
<u>Moulds and Yeasts</u>	Max. 1×10 ³ cfu/g	(Analysis for Hygienic Chemists)
<u>Coliforms</u>	Negative	(Analysis for Hygienic Chemists)
<u>Composition</u>	Ingredient	Content (Values are just a guide)
	Red ginger extract	50%
	Cyclodextrin	50%
	Total	100%
<u>Expiry date</u>	2 years from date of manufacturing.	
<u>Storage</u>	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