



ORYZA OIL & FAT CHEMICAL CO.,LTD.

1 Aza Numata Kitagata Kitagata-cho Ichinomiya-city, Aichi-prefecture 493-8001 JAPAN

Phone:+81-586-86-5141 Facsimile:+81-586-86-6191

URL/http://www.oryza.co.jp/ E-mail:info@oryza.co.jp

PRODUCT STANDARD

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

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.

Appearance Yellowish white powder with unique smell and pungent flavor.
[6]-gingerol and [6]-shogaol Min. 3.0 % (HPLC)
Tannin Min. 0.5 % (Vanillin · HCl method)
(Equivalent of procyanidin B₂)
3R,5S-[6]-gingerdiol A peak is detectable (HPLC)
Loss on Drying Max. 10.0 % (Analysis for HygienicChemists,
1g, 105°C, 2hr)

Purity Test
(1)Heavy Metals (as Pb) Max. 20 ppm (Sodium Sulfide Colorimetric Method)
(2)Arsenic (as As₂O₃) Max. 1 ppm (Standard Methods of Analysis in Food Safety
Regulation, The Third Method, Apparatus B)
Standard Plate Counts Max. 3×10³ cfu/g (Analysis for Hygienic Chemists)
Moulds and Yeasts Max. 1×10³ cfu/g (Analysis for Hygienic Chemists)
Coliforms Negative (Analysis for Hygienic Chemists)

Composition

<u>Ingredient</u>	<u>Content</u>
Cyclodextrin	67%
<u>Red ginger 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 18,2018
Specification No.	Z-818EN