

ORYZA OIL & FAT CHEMICAL CO.,LTD.

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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 3*R*,5*S*-[6]-gingerdiol can be observed in HPLC chromatogram of this product.

Appearance Yellowish white powder with unique smell and	pungent flavor.
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[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)

<u>Loss on Drying</u> 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 CountsMax. 3×10^3 cfu/g(Analysis for Hygienic Chemists)Moulds and YeastsMax. 1×10^3 cfu/g(Analysis for Hygienic Chemists)ColiformsNegative(Analysis for Hygienic Chemists)

<u>Composition</u> <u>Ingredient Content (Values are just a guide)</u>

Cyclodextrin 67%
Red ginger extract 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