



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

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### PRODUCT STANDARD

PRODUCT NAME : **PERILLA SEED EXTRACT-L** (FOOD)

This product is extracted from the seeds of perilla (*Perilla frutescens* var. *frutescens*) with aqueous ethanol. It guarantees a minimum of 2.0 % polyphenols.

<b><u>Appearance</u></b>	Dark brown liquid with unique smell.	
<b><u>Certification Test</u></b>	To 1.0 g of this product, add 8.5 mL of 90 % diethylene glycol and 0.5 mL of 1 N NaOH. Then it changes yellow. (DAVIS method)	
Flavonoid	Min. 2.0 %	(Folin-Denis method)
<b><u>Polyphenols</u></b>	18.0 to 22.0 %	(Analysis for Hygienic Chemists)
<b><u>Residue on Evaporation</u></b>		
<b><u>Purity Test</u></b>		
(1)Heavy Metals (as Pb)	Max. 20 ppm	(Sodium Sulfide Colorimetric Method)
(2)Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Max. 1 ppm	(Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)
<b><u>Standard Plate Counts</u></b>	Max. 1×10 <sup>3</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>	<b><u>Ingredient</u></b>	<b><u>Content</u></b>
	Ethanol	50 %
	Water	30 %
	<u>Perilla Seed Extract</u>	<u>20 %</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 sunlight, and store it in a closed container.

Established Date	October 1, 1997
Revised Date	April 16, 2018
Specification No.	B-816EN