



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 : BROCCOLI SPROUT EXTRACT-PC (COSMETIC)

This product is the powder extracted with aqueous ethanol from germinated broccoli (*Brassica oleracea* var. *italica*). It contains minimum 2.0 % of sulforaphane and 5.0 % of glucoraphanin. This powder is water-soluble.

<u>Appearance</u>	Slight yellowish powder with slightly characteristic odor.	
<u>Glucoraphanin</u>	Min. 5.0 %	(Sulforaphan amount(GC Method) \times 2.46*)
<u>Sulforaphane</u>	Min. 2.0 %	(GC Method)
<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. 10 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>
	Brassica Oleracea Italica(Broccoli) sprout extract	50 %
	<u>Dextrin</u>	50 %
	Total	100 %

Expiry date 2 years from date of manufacturing.

Storage Store it at room temperature, dry, ventilated area.
Keep it away from high temperature and sun light, and store it in a closed container.

2.46*: $436(\text{Molecular Weight of Glucoraphanin}) \div 177(\text{Molecular Weight of Sulforaphan})$

Established Date	December 10, 2007
Revised Date	February 14, 2018
Specification No.	M-814EN