



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME : **WATER SHIELD EXTRACT-WSP** (FOOD)

This water-soluble product is extracted with aqueous ethanol from the leaves of water shield *Brasenia schreberi* J.F.Gmelin.

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| <u>Appearance</u> | Pale yellowish brown to gray-yellowish green powder with slightly unique scent. | |
| <u>Polyphenols</u> | Min. 5.0 % | (Folin-Denis method) |
| <u>Junsainoside A</u> | Min. 0.01 % | (HPLC) |
| <u>Polysaccharides</u> (Originated from water shield) | Min. 2.5 % | (Phenol-sulfuric acid method) |
| <u>Loss on Drying</u> | Max. 10.0 % | (Analysis for Hygienic Chemists, 1 g, 105°C, 2 hr) |
| <u>Purity Test</u> | | |
| <u>(1) Heavy Metals (as Pb)</u> | Max. 20 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> | <u>Ingredient</u> <u>Content</u> (Values are just a guide) | |
| | Modified Starch | 83 % |
| | Water Shield Extract | 17 % |
| | 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 sunlight, and store it in a closed container. | |

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| Established Date | September 25, 2012 |
| Revised Date | June 30, 2020 |
| Specification No. | G-030EN |