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PRODUCT STANDARD

PRODUCT NAME : **LITCHI SEED EXTRACT-LC** (COSMETIC)

This product is extracted from litchi seed, the seeds of *Litchi Chinensis* Sonn. (*Sapindaceae*) with 1,3-butylene glycol solution. It contains polyphenols of anthocyanins and flavonoids.

Appearance Yellow-Red brown liquid. It has no odor or slight characteristic odor.

Identification Test

- (1) **Anthocyanin** The solution of 1 drop in 5 mL of methanol add 0.2 mL of hydrochloric acid, heat to boiling, the color of the solution changes to red.
- (2) **Flavonoid** Dissolve 1mL of the solution in methanol to make 50 mL. To a solution of 2 mL in 0.1 g of magnesium (ribbon) add 1 mL of hydrochloric acid, sonicate for 1 to 2 minutes, the color of the solution changes to red.
- (3) **Saponin** The solution of 1 drop in 5 mL of acetic anhydride add calmly 1 mL of sulfuric acid, the color of the solution changes to dark reddish-brown.
- (4) **Tannin** Add 1 mL of the solution to 1-2 drop of Iron (III) chloride anhydrous reagent (9 in 100), to black-green.

Polyphenols Min. 0.20 % (Folin-Denis method)

pH 4.10 - 6.00 (10 % solution)

Specific Gravity 1.010 - 1.060 (25 °C)

Purity Test

(1) Heavy Metals (as Pb) Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)

(2) Arsenic (as As₂O₃) Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)

Standard Plate Counts Max. 1×10^2 cfu/g (Analysis for Hygienic Chemists)

Moulds and Yeasts Max. 1×10^2 cfu/g (Analysis for Hygienic Chemists)

Coliforms Negative (Analysis for Hygienic Chemists)

<u>Ingredient</u>	<u>Content</u>
Water	50 %
Butylene Glycol	49 %
<u>Litchi Chinensis Seed Extract</u>	1 %
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 3, 2001
Revised Date	June 30, 2017
Specification No.	G-730EN