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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. 1×10² cfu/g (Analysis for Hygienic Chemists)

Moulds and Yeasts

Max. 1×10² cfu/g (Analysis for Hygienic Chemists)

Coliforms

Negative (Analysis for Hygienic Chemists)

Composition

Ingredient Content (Values are just a guide)

Water 50 %

Butylene Glycol 49 %

Litchi chinensis Seed Extract 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	July 22, 2020
Specification No.	N-022EN