

# cosmeHerbest™ STRAWBERRY

This product is extracted with 1,3-Propanediol solution from the seed of *Fragaria × ananassa* Duch. (*Rosaceae*).

## Manufacturing method

Add 1,3-Propanediol solution to the seed of *Fragaria × ananassa* Duch. (*Rosaceae*), after extracting, filter as the product.

Raw material: Seed of Strawberry 100 g  $\longrightarrow$  Product: about 0.9 – 1.0 kg

## Description

This product is pale orange to pinkish orange liquid, and it is having sweet odor.

## Identification

- Anthocyanin

Add 5mL of methanol to 1 drop of this product, heat 80°C in a water bath after adding 0.2mL of hydrochloric acid; pale red color develops.

- Polyphenol

Add 3.5mL of water to 30  $\mu$  L of this product, add 0.2mL of Folin-Denis TS\*<sup>1</sup> and 0.4mL of saturated sodium carbonate\*<sup>2</sup>; blue color develops.

- Sugar

To 0.5mL of this product add 2 to 3 drops of  $\alpha$ -naphthol • ethanol solution and shake well, add gently 1 to 2mL of sulfuric acid; reddish purple color develops in contact zone.

\*1: Folin-Denis TS: Dilute the Folin-Ciocalteu reagent 2-fold with water

\*2: Add 35g of Sodium carbonate, anhydrous with 100mL of water and dissolve at 70 to 80 °C. Allow to stand for 1 night, remove the precipitate and use supernatant solution.

pH (1→10) : 4.5 to 6.5

## Purity

- Heavy metals

Take 1.0g of this product, determine heavy metals according to method 2: the limit is not more than 20ppm. Use 1.0mL of standard lead solution as the control solution.

- Arsenic

Take 1.0g of this product, prepare the test solution according to method 3, and perform the test: the limit is not more than 2ppm.

### **Bacterial Count**

Take 5g of this solution, make 50mL test solution with diluent and perform the bacterial count test, using standard agar medium according to Hygiene Test Method; the limit is not more than  $1 \times 10^2$  cfu/g.

### **Fungus Count**

Take 5g of this solution, make 50mL test solution with diluent and perform the fungus count test using potato dextrose agar medium added chloramphenicol according to Hygiene Test Method; the limit is not more than  $1 \times 10^2$  cfu/g.

### **Coli form**

Take 1mL of the solution which prepare the bacterial count test, and perform the coli form test using BGLB medium according to Hygiene Test Method; Negative / Not observe any colony.

These standards and test method are referred to General Notices and General Tests, Processes and Apparatus of The Japanese Standards of Quasi-drug Ingredients, unless otherwise specified.

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