

VeryBerry™ ACNEcare

This product is a mixture of 1,3-Propanediol solution of the seed of *Actinidia chinensis* Planch (*Actinidiaceae*), the fruit of *Fragaria × ananassa* Duch. (*Rosaceae*), seed of *Citrus junos* Sieb. Et Tanaka (*Rutaceae*), the peel of *Citrus unshiu* Marcowicz. (*Rutaceae*) and the peel of *Garcinia mangostana* L. (*Clusiaceae*), powdered extract of the leaf/seed/skin of *Vitis vinifera* L. (*Vitaceae*), Allantoin, Dipotassium Glycyrrhizate, Salicylic acid and Sodium hydroxide.

Manufacturing method

Extract solution with 1,3-Propanediol solution from mixture of the seed of *Actinidia chinensis* Planch (*Actinidiaceae*), the fruit of *Fragaria × ananassa* Duch. (*Rosaceae*), the seed of *Citrus junos* Sieb. Et Tanaka (*Rutaceae*), the peel of *Citrus unshiu* Marcowicz. (*Rutaceae*) and the peel of *Garcinia mangostana* L. (*Clusiaceae*). Then mix the solution with powdered extract of the leaf/seed/skin of *Vitis vinifera* L. (*Vitaceae*), Allantoin, Dipotassium Glycyrrhizate, Salicylic acid and Sodium hydroxide, after mixing, and filter the mixture to obtain the product.

Raw material mixture : 90 g → Product: approximately 0.8–1 kg

Description

This product is reddish yellow to dark reddish brown liquid, with slightly characteristic odor.

Identification

- Anthocyanin (Grape leaf/seed/skin extract)
Add 5 mL of methanol to 1 drop of this product, and heat at 80°C for 10 minutes in a water bath, and add 0.2 mL of hydrochloric acid; pale red color develops.
- Flavonoid (Citrus unshiu peel extract)
Take 1 mL of this product, and add methanol to make 50 mL as the test solution. Use 2 mL of this test solution, add 0.1 g of magnesium ribbon and 1mL of hydrochloric acid and allow to stand; pale yellow to pale red color develops.
- Saponin (Citrus junos seed extract)
To 0.3 mL of this product add 5 mL of acetic anhydride. Add gently 1 mL of sulfuric acid; reddish brown color develops in contact zone.
- Polyphenol (Strawberry fruit extract)
Add 3.5 mL of water to 30 µL of this product, add 0.2 mL of Folin-Denis TS*¹ and 0.4 mL of saturated sodium carbonate*²; blue color develops.

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

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

- Sugar (Kiwi seed extract)

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

- Xanthone (Mangostin peel extract)

Add 2 mL of diethyl ether to 1mL of this product, mix and allow to stand. Add 200 μ L of 1N sodium hydroxide to 1 mL of upper layer in this solution; yellow to red color develops in lower layer.

- Salicylic acid

1 mL of this product exhibit with 5 to 6 drops of dilute iron (III) chloride TS; red color develops. The color changes to purple and then fades when dilute hydrochloric acid is added dropwise.

- Allantoin

Add 10 mL of dilute hydrochloric acid to 2 mL of this product, boil for 5 minutes, add 10 mL of Phenylhydrazine Hydrochloride solution (1 \rightarrow 100) and cool. Add 0.5 mL of potassium ferricyanide and 1 mL of hydrochloric acid to this solution; pale red color and turn redder over time.

- Dipotassium Glycyrrhizate

Add 5 mL of water and 3 mL of hydrochloric acid to 2 mL of this product and distill. This distillate exhibit with 3 to 4 drops of 2,4-Dinitrophenylhydrazine TS; reddish orange color develops, and yield a reddish orange precipitate over time.

pH (1 \rightarrow 10) 4.0 to 6.0

Purity

- Heavy metals

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

- Arsenic

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

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 1×10^2 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 1×10^2 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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