[Claims]

【Claim 1】

A composition for enhancing skin elasticity or improving skin wrinkles, which comprises an enzyme-treated extract of a cultured root of a leguminous plant as an active ingredient,

wherein the enzyme-treated extract is obtained by adding an enzyme or a microorganism producing the same to an extract of the cultured root of the leguminous plant, and

wherein the content of coumestrol in the enzyme-treated extract is 20-200 mg per 1 g of the enzyme-treated extract.

【Claim 2】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the enzyme is pectinase or polygalacturonase.

【Claim 3】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the microorganism is *Aspergillus aculeatus*.

【Claim 4】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the addition amount of the enzyme is 0.8-8 parts by weight based on 100 parts by weight of the extract of the cultured root of the leguminous plant.

【Claim 5】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the addition amount of the enzyme is 2000-5000 units per 1 g of the extract of the cultured root of the leguminous plant based on enzymatic activity.

【Claim 6】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the enzyme-treated extract is a precipitate obtained by adding the enzyme or the microorganism producing the same to the extract of the cultured root of the leguminous plant, maintaining the resulting reaction product at 40-50 ºC and 60-100 rpm for 38-58 hours and then centrifuging the same.

【Claim 7】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the leguminous plant is any one selected from soybean, flat bean, seoritae, seomoktae, heuktae, cheongtae, hwangtae, ultari-kong, red bean, small black bean or shinhwa-kong.

【Claim 8】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the extract of the cultured root of the leguminous plant is obtained by extracting the cultured root of the leguminous plant with water, a C_1-C_6 lower alcohol or a mixture thereof as a solvent.

【Claim 9】

The composition for enhancing skin elasticity or improving skin wrinkles

according to claim 8, wherein the concentration of the alcohol in the mixture is 60-100 % (w/v).

【Claim 10】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 9, wherein the lower alcohol is ethanol.

【Claim 11】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 8, wherein the extraction time is 20-28 hours.

【Claim 12】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the extract of the cultured root of the leguminous plant is an extract of the cultured root obtained by proliferating the cultured root of the leguminous plant in a medium in a bioreactor while maintaining an air supply amount constant in the bioreactor.

【Claim 13】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein the bioreactor is a bulb-type bubble bioreactor.

【Claim 14】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein the concentration of ammonium nitrate (NH_4NO_3) in the medium is 650-1500 mg/L, the concentration of calcium chloride ($CaCl_2 \cdot 2H_2O$) is 175-400 mg/L, the concentration of magnesium sulfate ($MgSO_4 \cdot 7H_2O$) is 145-320

mg/L, the concentration of potassium phosphate (KH_2PO_4) is 65-150 mg/L, and the concentration of potassium nitrate (KNO_3) is 750-1500 mg/L.

【Claim 15】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein the medium is one to which IBA (indole-3-butyric acid) and a carbon source are added.

【Claim 16】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein the medium is an MS (Murashige and Skoog) medium.

【Claim 17】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein, when the cultured root is placed in the medium, the pH of the medium is 4.8-6.8 and the inoculation density of the cultured root is 2-6 g/L.

【Claim 18】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein the proliferation is conducted at 19-25 ºC for 3-5 weeks in the dark.

【Claim 19】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 12, wherein the air supply amount is 0.05-0.4 vvm (air volume/culture volume per minute).

【Claim 20】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the enzyme-treated extract of the cultured root of the leguminous plant is contained in the amount of 0.1-100 μg/mL based on the total weight of the composition.

【Claim 21】

The composition for enhancing skin elasticity or improving skin wrinkles according to claim 1, wherein the composition is a cosmetic composition or a food composition.