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The following information is taken from the documents submitted by the applicant.

(54) Name: Hair tonic

(57) Main claim: Hair tonic, containing water, butylene glycol,

biotinoyl tripeptide-1,

apigenin, oleanolic acid,

PPG-26-

buteth-26, PEG-40

hydrogenated castor

oil, Ecklonia cava, glycerine, Larix

Europaea wood

extract, glycine,

Camellia Sinensis leaf extract,

and zinc

chloride.

description

[0001] The invention relates to a hair tonic.

[0002] Active ingredient complexes or active ingredients, for example PROCAPIL™ or Redensyl®, are known that are said to ensure that less hair falls out or new hair grows back.

[0003] In the treatment, only a single active ingredient complex has been used so far, which only improves skin growth slightly.

[0004] It is therefore an object of the invention to create a hair tonic which has a positive effect on hair growth.

[0005] This problem is solved by the hair tonic with the features of the independent claim.

[0006] According to the invention, the hair tonic has water and butylene glycol.

[0007] The hair tonic is preferably a high-dose active ingredient complex.

[0008] Butylene glycol is a chemical compound, e.g., based on petroleum or obtained through the fermentation of sugar. Butylene glycol is mainly used as a humectant.

[0009] The hair tonic contains Biotinoyl Tripeptide-I. Biotinoyl Tripeptide-I make the hair soft and / or give it volume.

[0010] The hair tonic also contains apigenin. It is a flavonoid from citrus fruits. Apigenin is said to have antioxidant, skin-soothing and / or anti-inflammatory properties.

[0011] The hair tonic contains oleanolic acid. This is a pentacyclic triterpen that consists of five cyclohexane rings. Oleanolic acid is a natural component of various plants. For example, oleanolic acid can be an extract from olive tree leaves.

[0012] Oleanolic acid is said to reduce the activity of sebum glands. Oleanolic acid is also said to have an anti-inflammatory, skin-soothing, antioxidant and / or pore-refining effect.

[0013] The hair tonic has PPG-26-Buteth-26. PPG-26-Buteth-26 is said to have the effect of making hair soft and / or giving it volume.

[0014] Furthermore, the hair tonic PEG-40 hydrogenated castor oil (PEG-40 Hydrogenated Castor Oil). This should have an emulsifying effect. Furthermore, as a surfactant, this should bring about a uniform distribution of the hair tonic when used.

[0015] These active ingredients can be mixed as separate components to the hair tonic. Alternatively, the active ingredients water, butylene glycol, biotinoyl tripeptide-I, possibly apigenin, oleanolic acid, PPG-26-buteth-26, PEG-40 hydrogenated castor oil can already be premixed.

[0016] For example, PROCAPIL™ already contains these active ingredients. PROCAPIL™ can contain a combination of a vitaminized matrixin (chamomile extract) with apigenin and oleanolic acid. The active ingredient complex PROCAPIL™ was specially developed for hair growth.

[0017] PROCAPIL™ is said to have the effect of strengthening the anchoring of the hair in the scalp, promoting the supply of the hair roots and inhibiting the formation of dihydrotestosterone (DHT).

[0018] The hair tonic has Ecklonia cava. Ecklonia cava is an edible brown algae that grows around the South Korean island of Jeju, for example. Studies have found that topical application of Ecklonia cava has a positive effect on hair growth.

[0019] For example, studies have found that Ecklonia cava enlarges the shaft of the hair, promotes cell growth in the so-called dermal papilla and the insulin-like growth factor 1.

[0020] Studies show that Ecklonia cava increases the size, depth and length of the hair follicles. The steroid 5α reductase is inhibited.

[0021] Ecklonia cava is said to have the effect of building up hair, making it soft and shiny. Ecklonia cava is also said to help against split ends and dandruff. In addition, new hair growth should be supported and hair loss prevented even in almost bald areas.

[0022] The hair tonic contains glycerine. Glycerin is, for example, propane 1,2,3-triol. Glycerine is a sugar alcohol that is contained in fats and / or (vegetable) oils.

[0023] In addition, the hair tonic Larix Europe has wood extract. This is a wood extract from European larch. This is moisturizing and thus binds moisture.

[0024] The hair tonic contains glycine. One study found that glycine increases protein synthesis. Glycine is said to have a smoothing and firming effect and to enclose open wounds.

[0025] The hair tonic has Camellia Sinensis Leaf Extract (Camellia Sinensis Leaf Extract). The German name of the plant is the tea bush (green tea). Camellia Sinensis is said to have an antimicrobial effect and thus inhibit the growth of microorganisms such as bacteria and / or fungi. As an antioxidant, Camellia Sinensis is said to inhibit oxidation processes. Furthermore, Camellia Sinensis is said to have a moisturizing and invigorating effect.

[0026] Finally, the hair tonic contains zinc chloride (ZnCl₂). The trace element zinc is supposed to support the natural growth of the hair and strengthen the hair shaft.

[0027] These active ingredients can be mixed as separate components to the hair tonic. Alternatively, the active ingredients water, glycerine, Larix Europaea wood extract, glycine, Camellia Sinensis leaf extract and zinc chloride can already be premixed.

[0028] For example, Redensyl® already contains these active ingredients. Redensyl® can be an active ingredient with larch wood, amino acids and the trace element zinc. Redensyl® can contain dihydroquercetin glucoside, epigallocatechin gallate glucoside, glycine and / or zinc.

[0029] Redensyl® is said to have the effect of activating the hair roots, strengthening weakened hair follicles and helping to counteract hair loss. Redensyl® should stimulate cell communication, strengthen the hair roots and provide them with nutrients and vitamins. The active ingredient complex Redensyl® was specially developed for hair growth.

[0030] The hair tonic can thus to a certain extent be a mixture of the active ingredient complexes or active ingredients PROCAPIL™, Ecklonia cava and Redensyl®. It was surprising that these three autonomous complexes of active ingredients can be brought together in a single hair tonic.

[0031] Each of these three active ingredient complexes is said to stimulate skin growth to a certain extent.

[0032] It was surprising that these different active ingredient complexes can be combined with one another.

[0033] In internal application tests it could be found out that these three active ingredient complexes do not cannibalize each other, but rather complement each other.

[0034] This means that the hair tonic has a significantly higher effect than the individual active ingredient complexes.

[0035] The decisive factor for the high effectiveness is the fact that the three active ingredient complexes pursue completely different approaches and thus complement each other.

[0036] The hair tonic can only consist of PROCAPIL™, Ecklonia cava and Redensyl®.

[0037] Optionally, the hair tonic can include other components such as vitamins, amino acids and / or other substances that promote hair growth.

[0038] Further developments of the invention can also be found in the dependent claims, the description and the accompanying drawings.

[0039] According to one embodiment, the proportion of butylene glycol in the total weight is between 0.005 and 10% by weight.

[0040] Such a proportion has been found to be advantageous in tests.

[0041] According to a further embodiment, the proportion of biotinoyl tripeptide-1 in the total weight is between 0.0005 and 10% by weight.

[0042] Such a proportion has proven to be advantageous in tests.

[0043] According to a further embodiment, the proportion of apigenin in the total weight is between 0.001 and 10% by weight.

[0044] Such a proportion has been found to be advantageous in tests.

[0045] According to a further embodiment, the proportion of oleanolic acid in the total weight is between 0.001 and 10% by weight.

[0046] Such a proportion has proven to be advantageous in tests.

[0047] According to a further embodiment, the proportion of Ecklonia cava in the total weight is between 0.05 and 20% by weight.

[0048] Such a proportion has been found to be advantageous in tests.

[0049] According to a further embodiment, the proportion of Larix Europaea wood extract in the total weight is between 0.0005 and 10% by weight.

[0050] Such a proportion has been found to be advantageous in tests.

[0051] According to a further embodiment, the proportion of glycine in the total weight is between 0.001 and 10% by weight.

[0052] Such a proportion has been found to be advantageous in tests.

[0053] According to a further embodiment, the proportion of Camellia Sinensis leaf extract in the total weight is between 0.001 and 10% by weight.

[0054] Such a proportion has been found to be advantageous in tests.

[0055] According to a further embodiment, the proportion of zinc chloride in the total weight is between 0.001 and 10% by weight.

[0056] Such a proportion has been found to be advantageous in tests.

[0057] An exemplary hair tonic can be water, between 0.005 and 10% by weight of butylene glycol, between 0.0005 and 10% by weight of biotinoyl tripeptide-1, between 0.001 and 10% by weight of apigenin, between 0.001 and 10% by weight of oleanolic acid, PPG- 26-Buteth- 26, PEG-40 Hydrogenated castor oil, between 0.05 and 20% by weight Ecklonia cava, glycerine, between 0.0005 and 10% by weight Larix Europaea wood extract, between 0.001 and 10% by weight glycine, between 0.001 and 10% by weight % Camellia Sinensis leaf extract and between 0.001 and 10 wt% zinc chloride.

Protection claims

1. Hair tonic containing water,
Butylene glycol,
Biotinoyl Tripeptide-1,
Apigenin,
Oleanolic acid,
PPG-26-buteth-26,
PEG-40 Hydrogenated Castor Oil,
Ecklonia cava,
Glycerine,

Larix Europaea wood extract,
Glycine,
Camellia Sinensis leaf extract, and zinc chloride.

2. Hair tonic according to claim 1, characterized in that the proportion of butylene glycol on Total weight is between 0.005 and 10% by weight.

3. Hair tonic according to claim 1 or 2, characterized in that the proportion of biotinoyl tripeptide-1 in the total weight is between 0.0005 and 10% by weight.

4. Hair tonic according to one of the preceding claims, characterized in that the proportion of apigenin in the total weight is between 0.001 and 10% by weight.

5. Hair tonic according to one of the preceding claims, characterized in that the proportion of oleanolic acid in the total weight is between 0.001 and 10% by weight.

6. Hair tonic according to one of the preceding claims, characterized in that the proportion of Ecklonia cava in the total weight is between 0.05 and 20% by weight.

7. Hair tonic according to one of the preceding claims, characterized in that the proportion of Larix Europaea wood extract of the total weight is between 0.0005 and 10% by weight.

8. Hair tonic according to one of the preceding claims, characterized in that the proportion of glycine in the total weight is between 0.001 and 10% by weight.

9. Hair tonic according to one of the preceding claims, characterized in that the proportion of Camellia Sinensis leaf extract in the total weight is between 0.001 and 10% by weight.

10. Hair tonic according to one of the preceding claims, characterized in that the proportion of zinc chloride in the total weight is between 0.001 and 10% by weight.

No drawings follow