CLAIMS

[Claim 1]

A cosmetic ink comprising including a white-based pigment, a yellow-based pigment, a red-based pigment, and a blue-based pigment:

(A) a colorant;

(B) a higher alcohol having 3 or more carbon atoms;

(C) purified water;

(D) an acrylic-based resin including at least one polymer selected from the group consisting of a homopolymer of an acrylic-based monomer and a copolymer of two or more acrylic-based monomer species; and

(E) a film-forming agent,

wherein a spectral reflectance curve obtained by measuring spectral reflectances in wavelengths of 400 nm to 700 nm of a coating film of the cosmetic ink has a first inflection point in a wavelength region of 550 nm or more and 610 nm or less, and a second inflection point in a wavelength region of less than 550 nm,

a spectral reflectance at the first inflection point is higher than a spectral reflectance at the second inflection point, and

spectral reflectances throughout a wavelength region of more than 580 nm are equal to or higher than a spectral reflectance at a wavelength of 580 nm.

[Claim 2]

The cosmetic ink according to Claim 1, wherein the coating film of the cosmetic ink has an L* value of 48 or more in the L*a*b* color system.

[Claim 3]

The cosmetic ink according to Claim 1 or 2, wherein the (E) film-forming agent has an HLB value of 8 to 19.

[Claim 4]

The cosmetic ink according to Claim 1 or 2, wherein the (E) film-forming agent includes an acrylic-based polymer.

[Claim 5]

The cosmetic ink according to Claim 1 or 2, wherein the (A) colorant includes a black-based pigment or a black-based dye.

[Claim 6]

The cosmetic ink according to Claim 1, wherein the (A) colorant has an average particle size of 2 μm or less.

[Claim 7]

The cosmetic ink according to Claim 1, wherein a content of the (D) binder is 0.1 mass% or more and 10 mass% or less.

[Claim 8]

The cosmetic ink according to Claim 1, having a viscosity at 25°C of 50 mPa·s or less measured with a cone-plate viscometer at a shear rate of 1000 (1/s).

[Claim 9]

The cosmetic ink according to Claim 1, having a pH of 6 to 10.

[Claim 10]

The cosmetic ink according to Claim 1, having a surface tension of 50 mN/m or less.

[Claim 11]

An ink jet printing ink comprising the cosmetic ink according to Claim 1.

[Claim 12]

An ink cartridge comprising the cosmetic ink according to Claim 1.

[Claim 13]

A method for producing a cosmetic sheet, the method comprising:

a step of applying the cosmetic ink according to Claim 1 onto a printing medium by an ink jet process; and

a step of drying the cosmetic ink applied to the printing medium.

[Claim 14]

A method for producing a cosmetic sheet, the method comprising:

a coating film formation step of applying, to positions displaced from each other, droplets of inks of three or more colors selected from the group consisting of white ink, red ink, yellow ink, blue ink, and black ink to form a coating film,

wherein, in the coating film formed in the coating film formation step,

a spectral reflectance curve obtained by measuring spectral reflectances in wavelengths of 400 nm to 700 nm has a first inflection point in a wavelength region of 550 nm or more and 610 nm or less, and a second inflection point in a wavelength region of less than 550 nm; a spectral reflectance at the first inflection point is higher than a spectral reflectance at the second inflection point; and spectral reflectances in a wavelength region of 610 nm or more are equal to or higher than the spectral reflectance at the first inflection point, and

the white ink, the red ink, the yellow ink, the blue ink, and the black ink each include (A) a colorant, (B) a higher alcohol having 3 or more carbon atoms, (C)

purified water, (D) an acrylic-based resin including at least one polymer selected from the group consisting of a homopolymer of an acrylic-based monomer and a copolymer of two or more acrylic-based monomer species, and (E) a film-forming agent.