

CLAIMS

1. A liquid plant-based milk having an ingredient composition comprising the following ingredients :
- 5 - at least one plant protein as the only source of protein of said composition,
 - at least one plant-based oil or fat,
 - at least one natural sweetener,
 - calcium citrate tetrahydrate as the only salt of calcium in said composition,
 - at least one buffer selected from the list of dipotassium phosphate, disodium phosphate,
10 potassium lactate, sodium lactate, potassium carbonate, sodium carbonate, potassium
 citrate, sodium citrate and a mix of them and their corresponding acids,
 - optionally flavours, colorants and/or vitamins
 - water,
 said milk being free of gums, hydrocolloid thickeners and synthetic emulsifiers.
- 15 2. A liquid plant-based milk according to Claim 1, wherein the natures and the quantities of
 ingredients are selected so that the mineral composition of said milk comprises :
 - between 10 and 100 mmol/l of Ca,
 - between 10 and 80 mmol/l of Na,
20 - between 20 and 200 mmol/l of K,
 - between 15 and 150 mmol/l of P,
 for a concentration of citrate comprised between 7 and 70 mmol /l.
- 25 3. A liquid plant-based milk according to any one of the precedent claims wherein the at least
 one plant protein is pea protein only or faba bean protein only.
- 30 4. A liquid plant-based milk according to any one of the precedent claims, wherein the at
 least one plant protein is present in the ingredient composition in an amount comprised
 between 2 and 8 % in weight of the ingredient composition.
- 35 5. A liquid plant-based milk according to any one of the precedent claims, wherein the at
 least one plant oil or fat is present in the ingredient composition in an amount comprised
 between 1 and 5 % in weight of the ingredient composition.
6. A liquid plant-based milk according to any one of the precedent claims, wherein the at
 least one natural sweetener is present in the ingredient composition in an amount comprised
 between 1 and 10 % in weight of the ingredient composition.

7. A liquid plant-based milk according to any one of the precedent claims, wherein calcium citrate tetrahydrate is present in the ingredient composition in an amount comprised between 0.18 and 1.8 % in weight of the ingredient composition.

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8. A liquid plant-based milk according to any one of the precedent claims, wherein the buffer is dipotassium phosphate and said dipotassium phosphate is present in the ingredient composition in an amount comprised between 0.5 and 1.8 % in weight of the ingredient composition.

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9. A liquid plant-based milk according to any one of the precedent claims, wherein the ingredient composition consists in :

- pea protein isolate,
- at least one plant-based oil,
- 15 - at least one natural sweetener,
- calcium citrate as the only salt of calcium of said composition,
- dipotassium phosphate,
- water, and
- optionally flavours, colorants and/or vitamins.

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10. A liquid plant-based milk according to any one Claim 1 to 9, wherein the ingredient composition consists in :

- faba bean protein isolate,
- at least one plant-based oil,
- 25 - at least one natural sweetener,
- calcium citrate as the only salt of calcium of said composition,
- dipotassium phosphate,
- water, and
- optionally flavours, colorants and/or vitamins.

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11. A liquid plant-based milk according to any one of the precedent claims, wherein the at least one plant protein and the at least one plant-based fat are emulsified and form agglomerates inside the milk.

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12. A liquid plant-based milk according to the precedent claim, wherein the mean diameter $D[4,3]$ of the agglomerates ranges between 1 and 30 μm .

13. A liquid plant-based milk according to any one of the precedent claims, wherein the pH of said milk is comprised between 6.7 and 7.8.

14. A liquid plant-based milk according to any one of the precedent claims, wherein the total
5 solid content is comprised between 8 % to 24 % in weight.

15. Method of preparation of the plant-based milk of any one of the Claims 1 to 13, said method comprising the steps of :

- mixing water, the at least one plant protein, the at least one plant-based oil or fat, the at
10 least one natural sweetener, calcium citrate tetrahydrate, the at least one buffer and optional
flavours, colorants, vitamins, in order to obtain an emulsion,
- optionally adjusting pH,
- homogenizing or shearing the composition,
- heating the homogenized or sheared composition,
- 15 - aseptic filling the composition in container.

16. Use of the plant-based milk of any one of the Claims 1 to 14 as an additive in a coffee
based beverage.