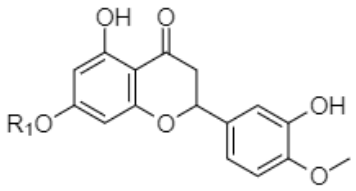
CLAIMS

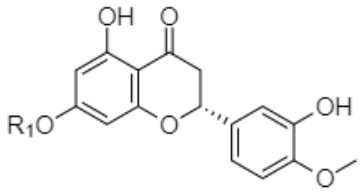
1. A method for masking or reducing the bitter, sour, pungent, astringent, or metallic taste impression of a substance causing bitter, sour, pungent, astringent, or metallic taste impression in an ingestible product, the method comprising: adding to the ingestible product a compound of Formula (I) or a stereoisomer or salt thereof



(I)

wherein R1 is a saccharide consisting of 2 monosaccharide units; and

wherein the compound of Formula (I) is a compound of formula (Ia):



(Ia)

wherein R_1 is a saccharide consisting of 2 monosaccharide units; or alternatively,

the compound of Formula (I) is added as a mixture of the (2S)- and (2R)-enantiomers;

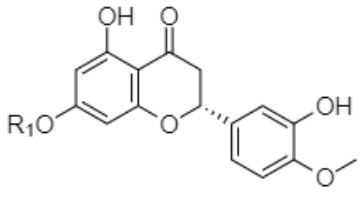
wherein said compound of Formula (I) is not added in combination or as admixture with a hesperidin glycoside;

wherein said ingestible product comprises said substance, and said substance is selected from the group consisting of caffeine, theobromine, theophylline, methylxanthine, quinine, brucine, strychnine, nicotine, salicin, arbutin, neohesperidin, naringin, quercitrin, rutin, phloridzin, pentagalloylglucose, proanthyocyanidines or procyanidines, thearubigin, quercetin, taxifolin, myricetin, gamma-oryzanol, caffeic acid or esters thereof, limonin, nomilin, a polymethoxylated flavone, absinthin, amarogentin, magnesium salts, calcium salts, potassium chloride, potassium gluconate, potassium carbonate, potassium sulfate, potassium lactate, potassium glutamate, potassium succinate, potassium malate, sodium sulfate, magnesium sulfate, fluoroquinolone antibiotics, paracetamol, ibuprofen, aspirin, beta

-lactam antibiotics, ambroxol, propylthiouracil, vitamin H, vitamin B1, vitamin B2, vitamin B6, vitamin B12, niacin, pantothenic acid, denatonium benzoate, sucralose octaacetate, leucine, isoleucine, valine, tryptophan, proline, histidine, tyrosine, lysine, phenylalanine, soy protein, whey protein, pea protein, rice protein, hemp protein, chia protein, wheat protein, potato protein, corn protein, sunflower protein, collagen peptides, cannabinoids, and mixtures thereof; and

wherein the compound of Formula (I) is added in an amount from 100 to 500 ppm, by weight of the total weight of the ingestible product.

2. The method according to claim 1, wherein said compound of Formula (I) is (Ia)



(Ia)

wherein R1 is a saccharide consisting of 2 monosaccharide units.

3. The method according to claim 2, wherein said compound of formula (Ia) is (2*S*)-5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-7-[(2*S*,3*R*,4*S*,5*S*,6*R*)-3,4,5-trihydroxy-6-{[(2*R*,3*R*,4*R*,5*R*,6*S*)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxymethyl}oxan-2-yl]oxy-2,3-dihydrochromen-4-one.

4. The method according to any one of claims 2 or 3, wherein said compound is added as a taste masking composition in which the (2S)- and (2R)-enantiomers are present in a weight ratio of 99:1 to 80:20.

5. The method according to claim 4, wherein the (2S)- and (2R)-enantiomers are present in a weight ratio of 99:1 to 90:10.

6. The method according to any one of claims 1 to 5, wherein said substance causing bitter, sour, pungent, astringent, or metallic taste is a substance which is naturally occurring in said ingestible product.

7. The method according to claim 6, wherein said substance is a substance present in a citrus plant fruit suffering from Greening disease.

8. The method according to claim 7, wherein said substance is a polymethoxylated flavone, limonin, nomilin, or mixtures thereof.

9. The method according to any one of claims 1 to 5, wherein said substance causing said bitter, sour, pungent, astringent, or metallic taste in said product has been artificially added to said product.

10. The method according to any one of claims 1 to 9, wherein said ingestible product is a food product.

11. The method according to claim 10, wherein said food product is a beverage product.

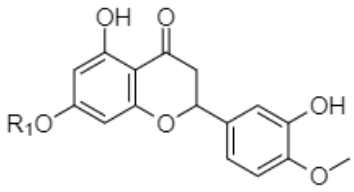
12. The method according to claim 11, wherein said beverage is a citrus juice.

13. The method according to claim 12, wherein said citrus juice is produced from a citrus fruit plant suffering from Greening disease.

14. The method according to any one of claims 1 to 13, wherein the compound of Formula (I) is added in an amount of 100 ppm to 300 ppm, by weight of the total weight of the ingestible product.

15. The method according to claim 14, wherein the compound of Formula (I) is added in an amount of 100 ppm to 200 ppm by weight of the total weight of the ingestible product.

16. Ingestible product which comprises a substance causing bitter, sour, pungent, astringent, or metallic taste impression, and a taste masking composition comprising a compound of formula (I)



(I)

wherein R1 is saccharide consisting of 2 monosaccharide units and the (2S)- and (2R)-enantiomers are present in a weight ratio of 99:1 to 80:20; wherein said composition does not contain a hesperidin glycoside; wherein said substance is selected from the group consisting of caffeine, theobromine, theophylline, methylxanthine, quinine, brucine, strychnine, nicotine, salicin, arbutin, neohesperidin, naringin, quercitrin, rutin, phloridzin, pentagalloylglucose, proanthyocyanidines or procyanidines, thearubigin, quercetin, taxifolin, myricetin, gamma-oryzanol, caffeic acid or esters thereof, limonin, nomilin, a polymethoxylated flavone, absinthin, amarogentin, magnesium salts, calcium salts, potassium chloride, potassium gluconate, potassium carbonate, potassium sulfate, potassium lactate, potassium glutamate, potassium succinate, potassium malate, sodium

sulfate, magnesium sulfate, fluoroquinolone antibiotics, paracetamol, ibuprofen, aspirin, beta -lactam antibiotics, ambroxol, propylthiouracil, vitamin H, vitamin B1, vitamin B2, vitamin B6, vitamin B12, niacin, pantothenic acid, denatonium benzoate, sucralose octaacetate, leucine, isoleucine, valine, tryptophan, proline, histidine, tyrosine, lysine, phenylalanine, soy protein, whey protein, pea protein, rice protein, hemp protein, chia protein, wheat protein, potato protein, corn protein, sunflower protein, collagen peptides, cannabinoids, and mixtures thereof; and wherein the compound of formula (I) is present in an amount of 100 to 500 ppm by weight of the total weight of the ingestible product.

17. The ingestible product according to claim 16, wherein in the taste masking composition said compound of formula (I) is hesperidin.