MIXTURE OF COMPOUNDS WITH HIGH MOLECULAR WEIGHTS, OBTAINED FROM SUGARCANE WAX (*Saccharum officinarum* L.)

CLAIMS

1. Mixture of compounds with high molecular weights, obtained from sugar cane wax, characterized by being made up of fatty acids between 26 and 36 carbon atoms in the form of alkaline or alkaline earth salts, primary aliphatic alcohols between 24 and 34 carbon atoms and αβ unsaturated aldehydes with more than 48 carbon atoms.

2. Mixture of compounds with high molecular weights, according to claim 1, characterized by containing between 60% and 80% by weight of fatty acids in the form of alkali or alkaline earth salts in the following proportion: C26:0 between 0.3 and 5%., C27:0 between 0.3 and 5%, C28:0 between 20.0 and 40.0%, C29:0 between 1.0 and 3.0%, C30:0 between 12.0 and 25.0%, C31:0 between 0.5 and 2.0%, C32:0 between 5.0 and 15.0%, C33:0 between 0.5 and 3.0%, C34:0 between 5.0 and 18,0%, C35:0 between 0.3 and 1.5%, and C36:0 between 1.0 and 8.0%; as well as homologous primary aliphatic alcohols (10-30% by weight) between 24 and 34 carbon atoms, among which 1-octacosanol predominates; and aldehydes (10-30% by weight), among which unsaturated αβ with more than 48 carbon atoms predominate.

3. Mixture of compounds with high molecular weights, according to claims 1 and 2, characterized in that the substances it contains are obtained from raw or refined sugar cane wax (*Saccharum officinarum*) through a process that involves the saponification of the wax with alkaline or alkaline earth hydroxides, followed by successive stages of extraction and purification of fractions of salts of fatty acids, alcohols and high molecular weight aldehydes, with organic solvents or CO_2 fluids under supercritical conditions, followed by the final standardization of the concentrations of said compounds at the required concentrations.

4. Mixture of compounds with high molecular weights, according to claims 1 to 3, characterized by their use in neuroprotective and antioxidant compositions.

5. Nutritional composition characterized by containing the mixture of high molecular weight compounds, in accordance with claims 1 to 4, in doses between 5 and 50 mg per dosage unit, as well as excipients accepted by the food industry.

~~6. Nutritional composition, according to claim 5, in the form of tablets or capsules for oral use, which is characterized by containing, in addition to the mixture of high molecular weight compounds, filler excipients, adhesives, disintegrants, lubricants and colorants.~~

~~7. Nutritional composition, according to claim 5, in the form of a suspension for oral use, which is characterized by containing, in addition to the mixture of high molecular weight compounds, suspending agents, preservatives, colorings, sweeteners, flavorings and solvents.~~

~~8. Pharmaceutical composition characterized by containing the mixture of high molecular weight compounds according to claims 1 to 4, in doses between 5 and 50 mg per dosage unit, as well as excipients accepted by the pharmaceutical industry.~~

~~9. Pharmaceutical composition, according to claim 8 in the form of tablets or capsules for oral use, which is characterized by containing, in addition to the mixture of high molecular weight compounds, filler excipients, adhesives, disintegrants, lubricants and colorants.~~

~~10. Pharmaceutical composition, according to claim 8, in the form of a suspension for oral use, which is characterized by containing, in addition to the mixture of high molecular weight compounds, suspending agents, preservatives, colorings, sweeteners, flavorings and solvents.~~