

Nanoemulsion delivery encapsulated ginsenosides for pharmacological cosmetic

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A pharmacologically effective or cosmetic substance for external application to treat e.g. acne, pimples, ulcers, cold sores. The substance includes an extract from plants of the grass family of plants particularly cereals, the extract including juice from green components of the plants at the unjointed stage. The extract is carried in a pharmaceutically acceptable aqueous carrier or excipient, the carrier preserving the extract against deterioration and being capable of at least partial absorption by tissues so as to carry the extract to sub-surface tissues. Delivery of certain bioactive compounds, such as ginsenosides, can be hampered by their poor solubility and bioavailability the degree to which a drug or other substance becomes available to the target tissue after administration. These shortcomings may be overcome if such bioactive compounds are properly processed and encapsulated in an aqueous matrix along with an agent that improves their absorption. The investigators found that by using a high-pressure homogenizer, a ginseng emulsion can be processed down to the nanoscale, which significantly enhances its stability.