Water Soluble Extract From Plant of Solanum Genus And The Preparation Process Thereof, And Pharmaceutical Composition Containing The Water Soluble Extract

Abstract

A water soluble extract from a plant of *Solanum* genus consists essentially of at least 60%-90% of solamargine and solasonine. A process for preparing the water soluble extract from the plant of *Solanum* genus involves the steps of hydrolysis with an acid, precipitation with a base, and separation treatments using chloroform, alcohol and water as extraction solvents. The water soluble extract prepared from the process can be directly dissolved in pure or neutral pH water to form a yellowish clear and transparent aqueous solution having a water solubility ranging from 2～20 mg/ml or higher.

The water soluble extract can be used as an active component in a pharmaceutical composition for inhibiting the growth of tumor/cancer cells, in particular liver cancer cells, lung cancer cells and breast cancer cells.

Fig. 4