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Pero, Ronald W.	September 11, 2003

Method of preparation and composition of a water soluble extract of the bioactive component of the plant species uncaria for enhancing immune, anti-inflammatory, anti-tumor and DNA repair processes of warm blooded animals

Abstract

A method for isolating the bioactive component of the water-soluble extract of Uncaria tomentosa known as C-MED-100.RTM., comprising (i) precipitating the spray drying carrier from C-MED-100.RTM.; (ii) using the resulting C-MED-100.RTM. to obtain a spotting mixture for thin layer chromatography (TLC); (iii) spotting the C-MED-100.RTM. spotting mixture on pre-run TLC plates and eluting the plates to obtain the fluorescing band with R.sub.f=0.2-0.3; (iv) scraping off the R.sub.f=0.2-0.3 band, eluting it in ammonia and freeze drying the eluted band to form a powder; and (v) extracting the powder with methanol to remove solubilized silica gel, concentrating the methanol solution and crystalizing the concentrated solution to obtain the bioactive component. The isolated bioactive component is a quinic acid analog, preferably quinic acid lactone. A pharmaceutical composition comprising a pharmaceutically effective amount of the bioactive component and a nontoxic inert carrier or diluent. The bioactive component may be used to enhance immune competency, treat disorders associated with the immune system, inhibit the inflammatory response, treat disorders associated with the inflammatory response, enhance the anti-tumor response, and treat disorders associated with the response to tumor formation and growth, all in mammals.

Inventors:	Pero, Ronald W.; (Arlington, VT)
Correspondence Name and Address:	GIBBONS, DEL DEO, DOLAN, GRIFFINGER & VECCHIONE 1 RIVERFRONT PLAZA NEWARK NJ 07102-5497 US
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