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[54] SOLUBLE DOUBLE METAL SALT OF GROUP IA AND IIA OF (-) HYDROXYCITRIC ACID, PROCESS OF PREPARING THE SAME AND ITS USE IN BEVERAGES AND OTHER FOOD PRODUCTS WITHOUT EFFECTING THEIR FLAVOR AND PROPERTIES

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[58] Field of Search 514/574; 568/579; 568/580; 580; 512/584

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[57] ABSTRACT

The present invention is directed to a new soluble double metal salt of group IA and IIA of (-) hydroxycitric acid of general formula I

where X is IA group metal: Li or Na or K or Rb or Cs or Fr where Y is IIA group metal: Be or Mg or Ca or Sr or Ba or Ra

where the concentration of X in the salt varies from 1.5-51.0%,

the concentration of Y in the salts varies from 2.0-50.0%,

the concentration of HCA in the salt varies from 31.0-94.0% depending on the nature of X and Y

This invention more particularly relates to new soluble double metal salt of group IA and IIA of (-) hydroxycitric acid of general formula II

This invention also includes a process of preparing the soluble double metal salt of group IA and IIA of (-) hydroxycitric acid of general formula I comprising: preparing (-) hydroxycitric acid liquid concentrate/solid lactone of hydroxycitric acid from Garcinia extract, neutralizing the free (-) hydroxycitric acid present in the said (-) hydroxycitric acid liquid concentrate/solid lactone (-) hydroxycitric acid with group IA metal hydroxides, displacing partially the group IA metal ions in the above salt solutions by adding group IIA metal chlorides to form soluble double metal salt of group IA and IIA of (-) hydroxycitric acid, precipitating the said double metal salt of group IA & IIA of (-) hydroxycitric acid by adding aqueous polar solvent to the soluble IIA metal salt of (-) hydroxycitric acid or obtaining the soluble double metal salt as powder by spray drying prior to the solvent addition or spray drying water substituted solvent precipitated material.

The instant invention also discloses the use of the said soluble double metal salt of group IA and IIA of (-) hydroxycitric acid of formula I and particularly formula II in beverages and other food products and its use in beverages and other food products.

10 Claims, No Drawings