

MATERIALS DISSOLVE IN PLANT LEAF SOLUTIONS .

I.K.RAO

Retired Lecturer, Govt. Degree College for Women, Srikakulam-532001, A.P, India
(Affiliated to Andhra University, Visakhapatnam)

*_*_*

Mn, Zn, Fe are dissolved from plant materials by mineral acids. Test procedures for medical plant materials dissolved 10mg in 1ml of Ethonal (750g/l) TS, and 4ml of water. Sterile water extract of plant material will dissolve ferric oxide. The role of leaf exudates in the solution of copper from Bordeaux mixture.

Our material Hg (Mercury) dissolve directly without any mixing is reported by the author. It is demonstrated before all scientist in the seminar hall. That the plant leaves are prepared as Nano particles and is examined by XRD, XRF, EDAX, DTA and DSC, FTR in this mixture golden silver also loses original properties. The plant leaves are prepared as Nano particles and. It is a new investigation that no paper has published so far on Hg is dissolved in plant leaves solutions.

INTRODUCTION

India is a land having very huge quantity of medical plants and medical herbs with only huge heritage of wealth and culture but also excellent in health fields. The most ancient medical treatments started with the help of plant leaves as chemicals with a system of ayurvedic medical treatment practised by sages in forest the country has its abundant quantity of these medicine plants and herbs at present mostly and unrecognized by chemical scientists. A new trend started and has put a keen eye on these plants in the year of international chemistry the chemical scientist has recognized the importance on material those dissolve in plants leaf solutions. No full length literature or any publications/inventions have not yet found in any literary works.

Mn, Zn and Fe dissolves in plant materials by mineral acids(1) The test procedures for medical plant materials dissolves 10 mg of in ml of ethanol and 4ml of water(2) sterile water extracts plant material will dissolve ferric acid oxide The role of leaf exudates in the solutions of copper from boride and mixture.

Experiment:

Mercury ----->

With the help of plant leaf solutions pour on the surface of mercury in a beaker and just mix slowly it will completely dissolve. First nano particles of mercury is formed and later became white paste. If it touches the gold silver it loses the original property of the material. Another interesting investigation is also started to find out the elements present in the plant leaf placing some leaves in the presence of sunlight and make nano powder. The powder examined by XRF, EDAX, Neutron Activation analysis, EDRF and XRD to identify the element in it.

RESULTS AND DISCUSSIONS : We need not give the experimental is XRF analysis report gives only K alpha lived Al , Cu, Fe, Zn are present in it with concentration.

EDAX : The main elements are obtained as follows C,O,Na, Mg, Si, P ,Cl, K,Ca,Pb

Now on activation analysis the results are given below Na, K, Cl, Mn, Cr, Br, As

EDRF : The following elements were identified in the herbal sample by qualitative analysis using EDXRF.

Ca, Mn, Fe, Zn, Br, Rb, Sr

XPS: X-Ray, photo electron spectroscopy yields information on elemental composition the oxidation state of elements and in favorable cases on phase over another. It can be used to give reasonable quantitative accuracy. The photo electron energy is dependent on the precise chemical configuration of the surface atoms and pronounced chemical shifts are produced in the position of the Fe as in the XPS spectrum as shown in Fig

Differential scanning calorimetry (DSC) the powder is used at the heating rate of 10% min and recorded the crystallization as shown in fig.

CONCLUSION : The following astonishing results were seen.

The elements that were present in plant leaves.

2. The mercury is dissolved in the plant leaf solution.

REFERENCE :

Material dissolved in plant leaf solution in Google search page 1 to 3