



**Short Communication**

**Comparative Study of Calcium Based Micro Fined Egg Shell Powder  
And Its Ayurvedic Formulation Egg Shell Bhasma**

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**ABSTRACT**

*The modern medicines now a day's shows an increased interest in the use of animal products. Since animal kingdom is so vast that enough and constant supply of raw material is possible for wider utilization and pharmaceutical preparations derived from animal source will be safer and can substitute corresponding synthetic products. Calcium is essential for all living organisms. Supplementary Calcium is used to prevent and treat Calcium deficiencies in food. The amount of Ca and other elements in the hen's egg shell and its acceptable limit is yet not reported. Hens egg shell bhasma is one of the organic form of Calcium carbonate used to treat osteoporosis that is in calcium deficiency. Hen's egg shell bhasma prepared in acidic medium is easily absorbed in the body. The acidic medias used are lemon juice and buttermilk at pH 2.4 and 3 respectively. Total five calcinations cycles are given to convert egg shell powder into the Bhasma state. The study showed that the egg shell is composed of an organic medium containing calcium carbonate in calcite form. The egg shell Bhasma formed in this way is characterized by instrumental techniques such as InfraRed spectrophotometry, Ultra Violet spectroscopy E- DAX and XRD. Here attempts are made to characterize hen's egg shell bhasma structurally and chemically.*

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