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## Patent Search

Invention Title	SYNTHESIS AND FORMULATION OF SILVER NANOPARTICLES FROM EXTRACTED AND CHARACTERISED WOODFODIA FRUCTIOSA FLOWERS FOR WOUND HEALING
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**Abstract:**

The present invention relates Synthesis and formulation of silver nanoparticles of Woodfodia fruticose for wound Healing. In this invention for the preparation of silver nanoparticles are employed by using green technology. i.e is biogenic extraction of the plant Woodfodia is mixed with silver nanoparticles. Prepared silver nano particles are characterized by using various analytical techniques such as UV spectra analysis, 2 FT-IR analysis, SEM analysis. When this extract incorporated into various bases such as ointments and cream for the Preparation of Ointment Incorporated with Woodfodia fruticosa Silver Nanoparticles and Woodfodia fruticosa Flower Extract. SYNERGISTIC EFFECT [Wound Healing Activity of the prepared silver nanoparticles incorporated ointment are evaluated by using (In vivo methods). The results show the synergistic activity of the prepared silver nanoparticles

**Complete Specification**

The present invention relates to a Synthesis and formulation of silver nanoparticles of Woodfodia fruticose for wound Healing.

**BACKGROUND OF THE INVENTION**

The metal silver as Rajata Bhasma has been based on traditional medicine and is believed to increase the immune response. Silver is noble metals in nanoparticles (AgNP) where its large area gives an enhanced antimicrobial activity. There are several important applications in silver nanoparticles. It has wide variety of medicinal uses like antibacterial, antifungal, antimalarial, larvicidal, anti-acne, anti-dandruff, anti-plasmodia, anticancer, anti-wounds and medical equipment such as bone cement, surgical equipment, surgical mask and catalytic activities.

It is used in textiles, water purification systems for domestic use, medical devices, cosmetics, electronics and domestic appliances. In addition to its antimicrobial property silver nanoparticles show strong optical characteristics making nanoparticles suitable for biological sensing and photography. Silver nanoparticles are used for a number of electronic devices due to their high conductivity and applied in conductive inks, adhesives, and pastes.

Additionally, silver nanoparticles are used as catalysts in various chemical reactions such as styrene oxidation. AgNPs have flourished in various purposes leading the way which drug delivery, nanomedicine, ointments, chemical sensing, data storage, cell biology, cosmetics, textile, food industry, photocatalytic organic color degradation, antioxidation, and antimicrobial agents: have made a major contribution.

The Remarkable Properties of Silver Nanoparticles Bring the Wound Closer to the Normal Skin. Silver nanoparticles play a distinct role in preventing infection, decreasing bacterial load in the wound by their broad-spectrum antimicrobial properties, and their surface modification properties provide easy incorporation of nano silver into cotton fabrics and drugs to improve the wound-healing treatment.

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