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(57) Abstract :

The present invention relates to the development of intracanal medicament formulation with extract of herb or plant for endodontic treatment of permanent teeth. It specifically relates to the development of gel formulation with 25% (w/v) powdered extract of Glycyrrhizaglabra/licuorice against anaerobic bacteria especially E. faecalis for endodontic treatment of adult permanent teeth. The invention also pertains to the development process for the preparation of gel formulation with carboxymethylcellulose for intracanal application in permanent teeth. The intracanal gel formulation of the present invention has good antimicrobial action with minimal cytotoxicity effect in both in vitro and in vivo conditions. Glycyrrhizaglabra/licuorice gel formulation having promising benefits and could be used as intracanal medicament for overcoming the bacterial resistance with synthetic agents for endodontic treatment of permanent teeth.

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(54) Title of the invention : HYDROGEL OF MONINGA, TRIGONELLA & CHITOSAN FOR IMPLANT SURFACE TREATMENT

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(57) Abstract :

The present invention relates to the development of hydrogel in the field of tissue engineering which is a combination of Chitosan, Moringa oleifera and Trigonella foenum-Greacum. It precisely aims to enhance the cell proliferation of osteoblast-like cells in-vitro. It particularly relates to hydrogel formulation with combination of Chitosan, Moringa oleifera and Trigonella as a potential implant surface treatment scaffold. More specifically, it relates to hydrogel formulation with combination of Chitosan, Moringa oleifera and Trigonella as a potential implant surface treatment scaffold is promoting and shortening of osseointegration time with quicker, stronger and predictable bone formation, ensuring better stability and thereby allowing implant placement with more freedom and extensity. This invention also relates to the the process for preparation of hydrogel formulation with combination of Chitosan, Moringa oleifera and Trigonella as a potential implant surface treatment scaffold.

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