

(54) Title of the invention : A COMPOSITION FOR IN VIVO TISSUE REGENERATION AND A METHOD OF IN VIVO TISSUE REGENERATION USING EXTRACT OF 5 WALTHERIA INDICA

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(57) Abstract :
A COMPOSITION FOR IN VIVO TISSUE REGENERATION AND A METHOD OF IN VIVO TISSUE REGENERATION USING EXTRACT OF 5 WALTHERIA INDICA ABSTRACT A composition for in vivo tissue regeneration and a method for tissue regeneration using Waltheria indica is provided. The bioactive compounds from waltheria indica plants increase the rate of tissue regeneration. The bioactive compounds includes at least tridecane(204), a Triazine, b Triazine, c Triazine, hexadecane(208), 1 hexadecane, and SW033291(212). The method includes preparing (1102) an aqueous extract of Waltheria indica using the soxhlet distillation method. The method further includes 15 performing (1104) a phytochemical screening of the aqueous extract of Waltheria indica using Liquid chromatography-mass spectrometry (LC-MS). The method further includes performing (1106) molecular docking studies using 15-Hydroxyprostaglandin dehydrogenase (PGDH) inhibitors which positively potentiate tissue regeneration. The method further includes performing (1108) an acute oral toxicity study of the aqueous 20 extract of Waltheria indica (AWI) (0–400 mg/mL) to confirm safety. The method further includes assessing (1110) a genotoxicity profile by using COMET and MN assay. [FIG.11]

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