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(57) Abstract :

The present invention relates to a Piceid-based, bilayer, mucoadhesive patch for oral transmucosal drug delivery. Further the present invention enhances the residence time of Piceid for improvement in bioavailability. The present invention comprising two layers; occlusive ingestible baking layer and active mucoadhesive layer wherein said active mucoadhesive layer (inner/medicated layer) comprises Piceid and 20-35% w/w of mucoadhesive forming polymers, wherein said backing layer (outer/non-medicated) comprises 40-70% w/w of the film-forming polymers and 5-10% w/w of plasticizer. The present invention provides a novel, effective, and patient-friendly solution for managing cancer therapy-induced oral inflammation and pain through a piceid-based mucoadhesive oral patch.

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