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Formulation and evaluation of orodispersible film of levocetrizine dihydrochloride

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The aim of present investigation was to develop orodispersible film of levocetrizine for increasing bioavailability and patient acceptance. It was prepared by solvent casting method by different polymer and plasticizer. The taste masking was carried out by Drug Resin complex using Kyron T 134 with 1: 3 ratio with drug. A 32 factorial design was applied for optimization. Prepared film were evaluated for their drug content uniformity, thickness, Folding endurance, Tensile strength, Percentage elongation, Disintegration time, *I* drug release and Stability study. The drug resin complex with Kyron T 134 show good taste masking with ratio 3:1. The formulation F5 shows higher drug content 96.54±1.59%, less disintegration time 32±1 sec, Tensile strength and folding endurance respectively 0.237±0.067 N/nm^2 and 120±3. Film of batch F5 was release 94.3% within 20 min during the dissolution test. These studies indicate that development of orodispersible film with view to patient compliance and to obtain faster onset of action. According to 32 full factorial designs, F5 proved as an optimized batch. Batch F5 remain stable after 1 month accelerated stability study. Drug excipients aerclr0 0 10 40 (t)10 (ud)7 (1 (u)-5 (l)-5a(b)7 (le)-532 f)-6(a)3 (s)-knhpte rs rentlmud s