International Journal of ChemTech Research
CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.6, pp545-552,2017

Formulation and Evaluation of Fast Dissolving Buccal Films of Sumatriptan Succinate

T.Balakrishna*[1], S.Vidyadhara[1], T.E.G.K.Murthy[2], R.L.C.Sasidhar[1] and S.Vikas[1]

[1]ChebroluHanuamiah Institute of Pharmaceutical Sciences, Chandramoulipuram, Chowdavaram, Guntur-522019, INDIA
[2]Bapatla College of Pharmacy, Bapatla, A.P., India

Abstract: The aim of this workis to formulate and evaluate the Sumatriptan Succinatefast dissolving buccal films used for the treatment of Migraine. The designof developing fast dissolving drug delivery systemsis to provide patient with more convenient means of drug administration and maximum drug dissolution in oral cavity and to bypassing the first metabolism, to increase the convenience and compliance by the pediatric and geriatric patients. In the present investigation, polyvinylalcohol (PVA) and polyvinylpyrrolidine (PVP) were used as film forming polymers. Solvent evaporation method was used for the preparation of fast dissolving buccalfilms. The films were preparedand evaluated for film thickness, folding endurance, dispersion test, drug content and dissolution. The In vitro dissolution studies were carried out using simulated salivary fluid (pH 6.8 phosphate buffer).Among all the formulations, Formulation S8 were released up to 99.8% of the drug from the film within 5 minutes of time which exhibits faster absorption and also shows desirable characteristics of the film.

Keywords: Buccal films, Sumatriptan Succinate, Polyvinyl alcohol (PVA), polyvinyl pyrrolidone (PVP), Solvent evaporation method.

*****