International Journal of PharmTech Research
CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563
Vol.13, No.04, pp 362-373, 2020

Method Development and Validation of Quantitative Estimation of Vilazodone Hydrochloride by UV and RP-HPLC

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Abstract : The aim of the study is to develop some new analytical method development and Validation of Quantitative Estimation of Anti-depressant Drug Vilazodone by UV and HPLC was found to be simple, specific, precise, accurate, rapid and economical. The method was developed and validated as per ICH guidelines, concerning accuracy, precision, linearity, ruggedness, limit of detection, limit of quantification and robustness and forced degradation studies. The GRACE ODS phenyl column (4.6 x 150mm,5µm) column was maintained at an ambient temperature and 232 nm λ max conditions. The mixture of di-potassium hydrogen phosphate with buffer (pH 7.4) and methanol in proportion 60:40v/v mobile phase was used in the flow rate of 1 ml/min. All validation methods shows good reproducibility and good recovery. The mean recoveries was found in the range between 99.6-99.9%. with % RSD values were within 2. The limit of detection and limit of quantification were found to be 0.05 µg/ml and 0.01 µg/ml respectively. The method was found to be having suitable application in routine laboratory analysis with high degree of accuracy and precision.

Keywords : VilazodoneHydrochloride, UV, RP-HPLC,Method development and validation.

Gayathri Nallathambi *et al* /International Journal of PharmTech Research, 2020,13(4): 362-373.

DOI: http://dx.doi.org/10.20902/IJPTR.2019.130408

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