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Article Detail

A Modified and Credible Methods to Estimate Nitrofurantoin In the Standard of Substances and Pharmaceutical Dosage

Author: , KHAWLA SALMAN ABD ALRASSOL, QUTAIBA A. QASIM, GHASSAN SALAH AHMED, H. N. K. AL-SALMAN*

Abstract: For identifying the nitrofurantoin drug, the four selective, sensitive and simple methods were developed. And these methods are then proved as well as validated in our particular research work. These methods are dependent of the nitrofurantoin reactions, performed by utilizing ZN/Cl, as well as iron mixture (II)and neutral medium is used for ferric chloride reduction through this drug along with 1, method A- 10-phenanthroline or 2, method B- bisperdyl or blue chromogen is formed when this particular drug binds with the oxidized ferric chloride and potassium ferritic cyanide reagent(method D). A colourful product is produced with the ninhydrin and nitrofurantoin reagent interaction and also method D is also dependent on this. By using method A, B, C and D the measurement of resulted red chromosomes is found to 500nm, 515nm, 735nm, and 575nm respectively. Method A, B, C and D uses the concentration ranges of 0.20-8.0 µg/ml 0.25-40 µg/ml, 0.50-30 µg/ml and 0.50-50 µg/ml respectively and in such optimal conditions Bers law is applied along with molar's absorption values are also estimated.The statistical compar ability of the suggested methods resulted with all those acquired by the reference technique which proved outstanding agreement as well as also shown there does not exist any interference through typical excipients in pharmaceutical formulations.

Keyword: Chelating agents, Ferric chloride, Nitrofurination drug.

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