

ABSTRACT

Meloxicam is a discovery of the recent days and is highly potent non-steroidal anti-inflammatory drug. This drug is frequently recommended for the treatment of rheumatoid, arthritis, osteoarthritis and other diseases of joints. It is observed that meloxicam reacts with ferric nitrate (0.05%) and potassium ferricyanide (0.5%) in the presence of nitric acid (0.1 N) resulting in a bluish-green color after heating for 90 seconds at 100 °C temperature. The color produced shows maximum absorbance at 730 nm. The reaction is selective for Meloxicam with its optimum concentration 0.01 mg/10 ml as visual limit of quantitation which provides a basis for its new charge transfer association. The color reaction obeys Beer's Law between 0.01mg – 4 mg/10 ml of Meloxicam and the relative standard deviation is 0.80%. The quantitative assessment of tolerable amount of other drugs is also studied.