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RP-HPLC Method Development and Cleaning Method Validation for the Analysis of Triclabendazole in Veterinary Pharmaceutical Dosage Forms

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Abstract : A new simple, selective, linear, precise and accurate RP-HPLC Cleaning method was developed and validated for rapid for the residual determination of triclabendazole by RP-HPLC in veterinary active pharmaceutical ingredients bulk drugs was developed and validated. Isocratic elution at a flow rate of 1.5ml per minute was employed on a waters symmetry C18 (250x4.6)mm, 5µmat 30ºc temperature. The mobile phase consisted of Acetonitrile: Water 70:30 (v/v). The UV detection wavelength was at 254nm.Linearity was observed in concentration range of 0.2-15ppm. The retention time for triclabendazole was 4.933 min. The method was validated as per the ICH guidelines. The proposed method can be successfully applied for routine analysis in bulk cleaning samples of triclabendazole in veterinary active pharmaceutical Ingredients.
Key words: Triclabendazole,Validation, Residual determination, RP-HPLC.

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