



**Analytical Applications of Tropaeolineooo and Azocarmine-G In
Visible Spectrophotometric Determination of Eletriptan Hydrobomide
In Pure And Pharmaceutical Formulations**

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ABSTRACT

Two simple and sensitive extractive visible spectrophotometric methods (A and B) for the assay of Eletriptan Hydrobomide (EHB) in pure and pharmaceutical formulations based on the formation of colored chloroform soluble ion-association associates under specified experimental conditions are described. Two dyes namely acidic dye Tropaeolineooo (TPOOO, method A), Azocarmine-G (ACG, method B) are utilized. The extracts of the ion-associates exhibit absorption λ_{max} at 486 nm and 545 nm for methods A and B respectively. Regression analysis of Beer-Lambert plots showed good correlation in the concentration ranges (4-24) $\mu\text{g/ml}$ for method A, (20-120) $\mu\text{g/ml}$ for method B and correlation co-efficients are 0.9907(A), 0.9984(B) respectively. The proposed methods are applied to commercial available formulations and the results are statistically compared with those obtained by the UV reference method and validated by recovery studies. The results are found satisfactory and reproducible. These methods are applied successfully for the estimation of the Eletriptan Hydrobomide (EHB) in the presence of other ingredients that are usually present in formulations. These methods offer the advantages of rapidity, simplicity and sensitivity and low cost without the need for expensive instrumentation and reagents.

Keywords: Azocarmine-G(ACG), Assay, Ion-association methods, Tropaeolineooo (TPOOO).
