

Development and validation of a high performance thin layer chromatographic method for determination of 1, 8-Cineole in *Callistemon Citrinus*

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ABSTRACT

A new, simple, precise, rapid, and selective high performance thin layer chromatographic (HPTLC) method has been developed and validated for the estimation of 1, 8-cineole in volatile oil of leaves of *Callistemon citrinus* obtained by hydro distillation. The method was validated as per ICH guidelines and can be utilized for routine analysis. The retention factor for 1, 8-cineole was found to be 0.52. The linearity was found to be in the range of 3 µg-12 µg. The recovery obtained for 1, 8-cineole was 98%, which is satisfactory. The result obtained in validation indicate the accuracy, reproducibility, and reliability of the developed HPTLC method for determination of 1, 8-cineole.

KEYWORDS

1, 8-cineole . *Callistemon citrinus* . essential oil . high performance thin layer chromatographic

REFERENCES

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