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Quantitative Analysis of I-Hyoscyamine in *Hyoscyamus reticulatus* L. by GC-MS

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Abstract: The hyoscyamine content of leaves and root samples of *Hyoscyamus reticulatus* L. from Bulanık, Muş in east Anatolia, Turkey, was determined by capillary GC-MS to be 0.036 μg 0.004% in the leaves and 0.056 μg 0.011% in the roots as the predominant compound. Sopolamine was only detected in trace amounts. These findings are in accordance with reports on hyoscyamine content in *Hyoscyamus* species. The limit of detection was 3.125 $\mu\text{g}/\text{mL}$ and the limit of quantification was 6.25 $\mu\text{g}/\text{mL}$ for hyoscyamine. This method has been shown to be linear and sensitive.

Key Words: I-Hyoscyamine, *Hyoscyamus reticulatus* L., Capillary GC-MS

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