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Physicochemical parameters, phytochemical screening and qualitative analysis of inorganic nutrients of *Persicaria glabra* (Willd.) Gomez de la Maza

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Abstract:
The present study investigated with physicochemical parameters, phytochemical analysis, and qualitative analysis of inorganic nutrients of *Persicaria glabra* (Dense flower Knotweed). Physicochemical parameters such as ash values, extractive values were determined. The methanolic extract of *P. glabra* leaves and stem revealed the presence of bioactive compounds such as alkaloids, flavonoids, tannins, glycosides, steroids, terpenoids, saponins, proteins, amino acids, reducing sugars, phenols, emodins, and phlobatannins. Whereas in the stem terpenoids and saponins were absent. The qualitative analysis of inorganic acid radicals in leaves showed the presence of carbonates and sulfates, whereas nitrates, phosphates, and sulfates were found in the stem. The inorganic basic radicals of the leaves and stem revealed the presence of arsenic, sodium, calcium, iron, and ammonium, whereas zinc is only found in the leaves. According to these findings, the presence of phytoconstituents and physicochemical parameters is useful for the development of novel drugs and assessing plant quality. Furthermore, this plant contains vital inorganic nutrient elements that may be useful for humans as dietary supplements for day-to-day life and to heal various ailments.

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