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A simple, sensitive, and high-throughput LC-APCI-MS/MS method for simultaneous determination of vitamin K₁, vitamin K₁ 2,3-epoxide in human plasma and its application to a clinical pharmacodynamic study of warfarin

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Abbreviations: VK₁, vitamin K₁; VK₁O, vitamin K₁ 2,3-epoxide; VKOR, vitamin K epoxide reductase; VKORC1, vitamin K epoxide reductase complex subunit 1; IS, internal standard; S/N, signal-to-noise ratio; GG CX, gamma-glutamyl carboxylase; Glu, glutamic acid; Gla, gamma carboxyl glutamic acid; MK-4, menaquinone-4; RT, room temperature.

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