



Determination of Saikosaponins in *Bupleurum Radix* from Different Locations by HPLC-CAD Method and its Immunomodulation Effects on Mouse Splenocytes

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SUMMARY. An HPLC-Charged Aerosol Detection (CAD) was employed to simultaneously determine saikosaponins include saikosaponin a (SSa), saikosaponin b₂ (SSb₂) and saikosaponin d (SSd) in *Bupleurum Radix* from different locations. Meanwhile, MTT assay was used to compare the proliferation effect of SSa, SS and SSb₂ on mouse splenocytes, and ELISA method was carried to determined cytokines included IL-4, IL-10, IFN- γ , TNF- α . The results showed that there existed the significant differences of the three saikosaponins from different locations, and SSa, SSd, and SSb₂ all presented immunomodulation effects on mouse splenocytes *via* promoting splenocyte proliferation and regulating the balance of Th1/Th2 factors.

KEY WORDS: *Bupleurum Radix*, HPLC-CAD, SSa, SSb₂, SSd.

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