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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