

Abstract:

The objective of the current study and also this thesis is to establish and improve the quality control system for *Radix Astragali*. This thesis can be divided into two sections.

In section I, the progress and research of chemical constituents, their pharmacological activities and the quality control methods of *Radix Astragali* were reviewed. Based on the previous studies, our researching schemes could be established.

In section II, Accelerated Solvent Extraction and High Performance Liquid Chromatography were used to establish a fast and efficient quality control method for Astragalosides in *Radix Astragali*. The conditions for these methods were optimized and the quality control system for *Radix Astrogali* was established.

Key Words: *Radix Astragali*, Astragaloside II, Accelerated Solvent Extraction (ASE), High Performance Liquid Chromatography (HPLC), quantitative analysis.