

ABSTRACT

The common Chinese Medicine, Radix Polygalae, with the effect to anchor the mind, promote phlegm expectoration, and to cause subsidence of swelling, using in insomnia, dream-disturbed sleep, forgetfulness, palpitation, and trance due to incoordination between the heart and kidney; cough with sputum difficult to expectorate; boils and sores, swelling and pain in the breast. On the Literature research, we had the separation research in the standard of Radix Polygalae. With the silica gel column chromatographic analysis technology in the separation of the whole saponin of Radix Polygalae, because of the acid hydrolysis of the whole saponin of Radix Polygalae was multiplicity, with 3 sapogenins changed mother nucleus, based on above, we had alkaline hydrolysis in the saponin, the hydrolysate, simple、stable, the condition is controlled, moreover, the hydrolysate--- tenuifolin can determined the quality of Radix Polygalae

The paper is to establish the qualitation and quantitation determination methods of the Radix Polygalae medical material, and to quantitation research on different of the produced and collected Radix Polygalae medical material. The result showed that the content of tenuifolin is max for the samples from Wanrong, Shanxi, and the Ximi, Henan is min, the best is grown 2 years, and collected in spring. And the determination of tenuifolin in other samples of Polygala and the Chinese formulated products with Radix Polygalae, can provide a scientific basis for the quality control of Radix Polygalae and the Chinese formulated products with Radix Polygalae.

On the base of chemical composition research, we had the quantitation research in the Phenols of Polygala; the determination of multicomponent in 9 herbal of Polygala; and with the finger print in Radix Polygalae.

KEYS: Radix Polygalae tenuifolin quality standard finger print