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Qualitative Evaluation for the Preparation of Chinese Medicine Reference Standard-Puerarin

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ABSTRACT

The raw material of Puerarin was examined prior to the preparation of the “Puerarin Reference Standard”. The physico-chemical properities of the candidate material were evaluated by a collaborative study among seven laboratories. Analytical data obtained were summarized as follows: the UV maximum absorption wavelengths and the corresponding specific absorbencies ($E^{1\%}_{1cm}$) were 249.9, 305.7 nm, and 736.8, 248.8, respectively. IR Spectra showed that IR absorption at 3366, 3234, 1633, 1515 and 1059 cm^{-1}. HPLC analysis revealed 1-6 impurities which individual amount was≤0.50% and the total amount from any single laboratory was ≦ 0.84%.

Based on the above results, the candidate material met the requirement of authorization as the Puerarin Reference Standard.

Key words: puerarin, Chinese medicine reference standard, collaborative study