Qualitative Evaluation for the Establishment of Chinese Medicine Reference Standard－Glycyrrhizinic Acid

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ABSTRACT

The raw material of glycyrrhizinic acid was examined prior to the preparation of the "Glycyrrhizinic Acid Reference Standard". The candidate material was evaluated physico-chemically by a collaborative study in which six laboratories participated. Analytical data obtained were as follows: The UV absorption maximum showed at 251.1 nm and the specific absorbance at the maxima was 140.8. IR Spectrum showed specific absorption at 1719, 1654, 1216 and 1170 cm^{-1}. Only one laboratory detected trace amount of two spots by thin-layer chromatography. HPLC analysis showed 1~7 impurities where individual amount were estimated to be equal to or less than 0.22% and the total amount from a single laboratory was equal to or less than 0.50%.

Base on the above results, the candidate material was authorized as the Glycyrrhizinic Acid Reference Standard.

Key words: glycyrrhizinic acid, Chinese medicine reference standard, collaborative study