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• 中文關鍵字	芍藥？；丹皮酚；安定性；；；；；
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• 中文摘要	中藥指標成分爲中藥品質管制及品質評價所必須之化學標準品，目前關於中藥指標成分並無明確之供應來源及規範，往往由研究者自行分離純化或由化學藥品供應商處購買，其品質之良劣關係中藥定量之結果，因此有賴於建立國家級之標準品，以確保定量之準確性。本年度是將上年度分離純化而得之標準品 paeoniflorin 及 paeonol 進行安定性及儲藏試驗包括：(1)一般儲存試驗、(2)加速安定性試驗、(3)酸鹼值安定性試驗、(4)溫度安定性試驗、(5)光安定性試驗與光分解反應研究、(6)指標成分分解產物 HPLC-MS 及 GC-MS 分析條件之最適化等。(7)白芍與牡丹皮市售品藥材之 paeoniflorin 及 paeonol 之含量與安定性。結果顯示： paeoniflorin 及 paeonol 溶於甲醇中，paeonol 對溫度濕度及酸鹼度相對於 paeoniflorin 安定，而 paeoniflorin 在受熱情況下，易分解爲苯甲酸，且對強酸及鹼不安定。Paeonol 易揮發，若以粉末受熱則比 paeoniflorin 不安定，因此建議 paeonol 要長期保存可以溶於甲醇中。而市售品之白芍、赤芍與牡丹皮之 paeoniflorin 及 paeonol 含量，大多少於台灣傳統藥典之規範，推測零售之貯存不易，及品種多所引起。
• 英文摘要	Reference standards are the important chemical substance for the quality evaluation and quality control of Chinese herbal medicine. Most of Traditional Chinese Medicine companys purchased the reference standards from the chemical supply company do not care about the purity and without further purified. The purity of reference standard affects the quality quantitative results of Chinese herbal medicines. Thus, it is necessary to establish the national grade of reference standard to ensure the high quality of Chinese herbal medicines. In this study, the stability and storage properties of paeonol and paeoniflorin will be evaluate including (1) general storage; (2) the accelerated stability; (3) pH stability; (4) temperature

stability; (5) photo- stability and photolysis analysis; (6) the optimize of HPLC-MS and GC-MS analysis (7) paeonol and paeoniflorin of commercial Peony Root, Red Peony Root and Tree Peony Bark contents and the stability analysis. Paeonol is better stability exposure to moist, heat and pH than paeoniflorin in MeOH. However, paeoniflorin exposed to high temperature and degraded to benzolic acid. In low or high pH solutions paeoniflorin will be degration. The powder of paeonol was sensitivity in high temperature; therefore we suggested paeonol should be stored in MeOH. The other hand, the commercial Peony Root, Red Peony Root and Tree Peony Bark is poor in paeonol and paeoniflorin.