

Identification for Echinacea Extract

A:Thin-Layer Chromatographic Identification Test

Test solution— Weigh and finely pulverize about 10g of Powdered Extract, and transfer 1g of the powder to a suitable extraction thimble. Transfer the thimble to a continuous extraction apparatus, and extract with 50mL of chloroform for 1 hour. Evaporate the chloroform extract to dryness at 40 in vacuum. To the residue, add 1mL of alcohol, and pass through a nylon membrane filter having a porosity of 0.45 μ m.

Standard solution 1— Dissolve an accurately weighed quantity of USP Powdered Echinacea purpurea Extract RS in methanol to obtain a solution having a known concentration of about 100 USP 28mg per mL.

Standard solution 2, Developing solvent system, Spray reagent, and Procedure— Proceed as directed for Identification test Echinacea

B: The retention times of the peaks for chicoric acids in the chromatogram of the Test solution correspond to those in the chromatogram of Standard solution 1, as obtained in the test for Content of total phenols.