Reveleris® X2 Flash System

Isolation and Purification of Flavonoids from Ginkgo Biloba Leaves Extract

Introduction

Extracts of Ginkgo leaves contain flavonoid glycosides and terpenoids (ginkgolides, bilobalides) and have been investigated for the treatment of dementia and Alzheimer's disease.

Isolation and purification of natural products is a challenging, tedious, and lengthy process requiring multiple steps and a large amount of organic solvent. The use of the Reveleris[®] X2 automated flash chromatography instrument and Reveleris[®] reversed-phase cartridges can ease the process.

Flash Chromatography Conditions: 12 gram Reveleris® RP C18 cartridge Flow Rate: 30mL/min Cartridge Equilibration: 3 min. Slope Detection: Low ELSD Threshold: 3mV UV Threshold: 0.02AU

Solvent A: 0.5% Formic acid in Water

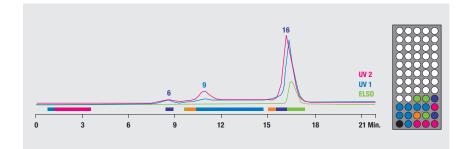
Gradient: Time: 0 2 15 16 17 18 19

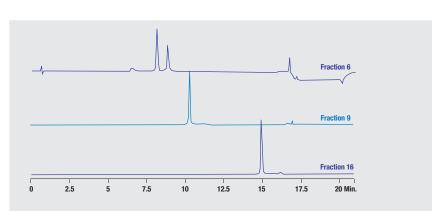
%B: 0 0 50 100 100 0 0

UV1 Wavelength: 254nm UV2 Wavelength: 280nm

Injection Type: Liquid

Solvent B: Methanol





Separation of flavonoids in ginkgo biloba extract by flash chromatography.

HPLC Chromatograms of ginkgo biloba fractions collected by Reveleris® flash chromatography.

Conclusion

Using the proposed procedure with the Reveleris[®] X2 flash instrument and Reveleris[®] flash cartridges the separation and isolation of flavonoids in ginkgo biloba extract can be easily achieved.

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