

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE173

ISOLATION OF PLANT PIGMENTS FROM LEAF EXTRACTS

Spe-ed™ Cartridge	Cat. No. 2003 – Octadecyl C18/14%, 500mg/3mL. Process with Spe-ed Mate .
Sample Preparation	Homogenize leaf sample in glass tissue grinder with 2mL of 70% methanol. Add 0.08gms celite. Keep cold. Filter through 5-micron filter. Collect filtrate.
Cartridge Conditioning	2mL methanol. 2mL water. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Aspirate prepared filtrate through cartridge.
Analyte Elution	
Flavonoids	8mL 70% methanol.
Oxygenated Carotenoids	5mL 90% methanol.
Chlorophyll A	5mL 100% methanol.
Chlorophyll B	5mL 100% methanol.
Carotene	5mL acetone.

Note: *Since sample matrix interferences and concentrations may vary from sample to sample, it may be necessary to adjust the wash and elution solvent/solution strength and/or volume to optimize isolation.*

The logo for Applied Separations, featuring the company name in a bold, sans-serif font with horizontal lines above the word "Applied".

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