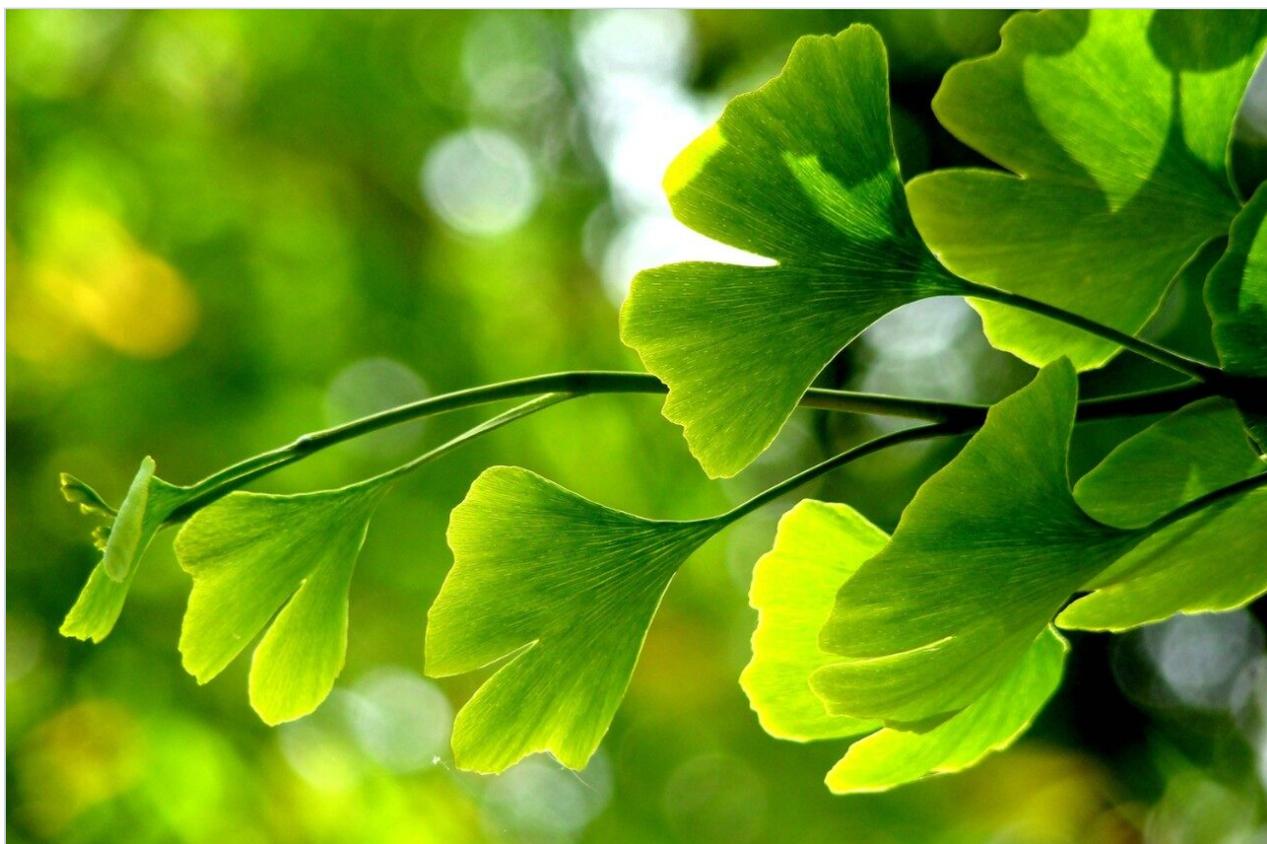


Nota applicativa

## Flavonoids in Ginkgo

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Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

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### Abstract

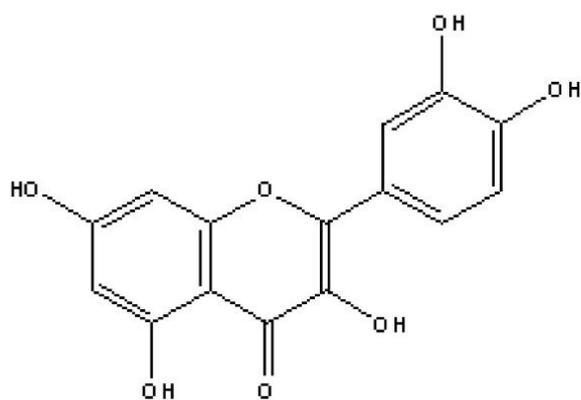
This application brief demonstrates analysis of flavonoids in ginkgo.

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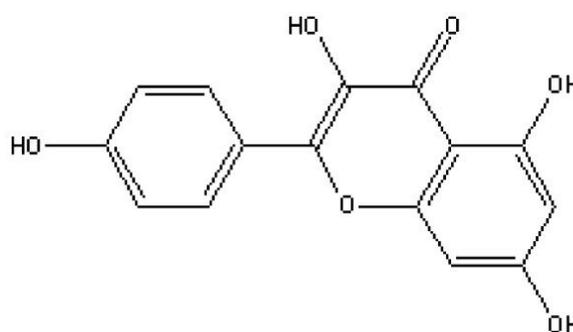
## Introduction

The compounds used in this study are –

1. Quercetin
2. Kaempferol
3. Isorhamnetin



**1. Quercetin**



**2. Kaempferol**

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## Experimental

### Sample Pre-Preparation

1 g sample is refluxed in 50 mL of ethanol: 3M HCl (70:30) for 2.5 hr

The cooled sample is adjusted to exactly 100 mL

0.3 mL of the ethanolic extract is diluted 1:10 with water

- Recovery, measured with certified standards at 100 ppm in reagent water, was 82% for quercetin and >90% for the other compounds

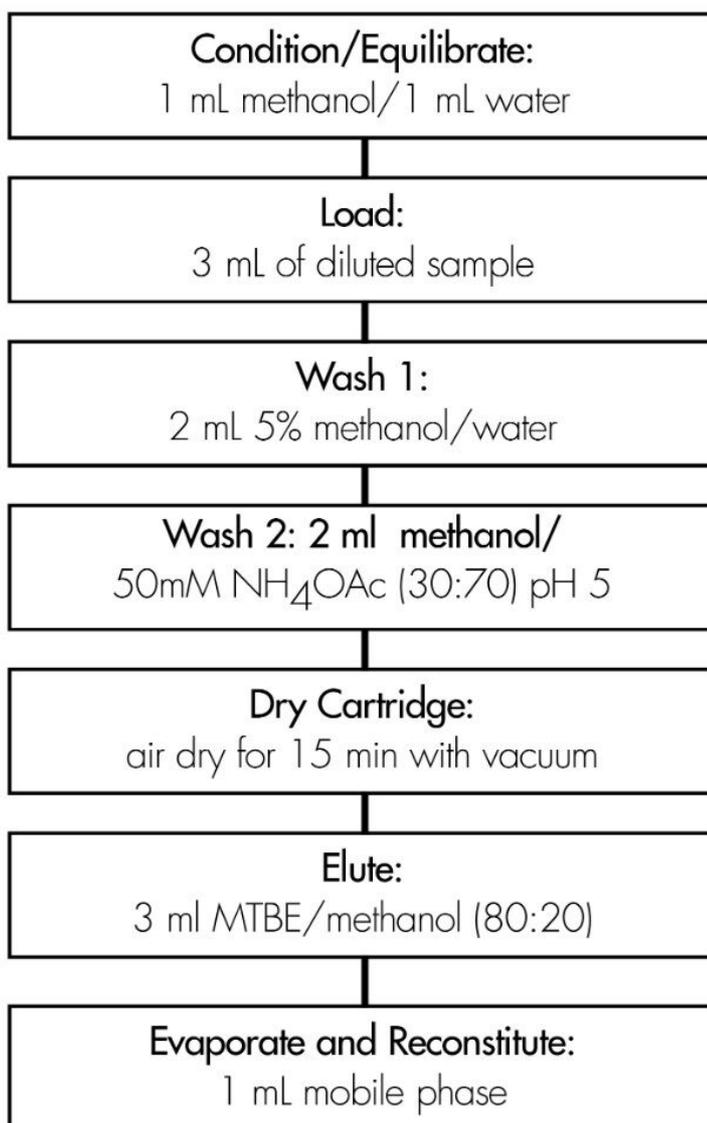
- All analyses gave results within  $\pm 40\%$  of the expected values with the exception of the capsule (+60%)
- The selective SPE extraction and cleanup procedure provided a convenient analysis of ginkgo flavonoids in a complex matrix (Herbal One with 16 herbal ingredients)

## HPLC Method

Column:	Symmetry C <sub>18</sub> , 4.6 x 250 mm, 5 $\mu$ m
Part number:	WAT054275
Mobile phase:	0.5% Phosphoric acid/Methanol 50:50
Flow rate:	1.5 mL/min
Injection volume:	10 $\mu$ L
Temperature	25° C
Detection:	UV @ 270 nm 0.02 AUFS

# Oasis<sup>®</sup> HLB method for flavonoids in ginkgo

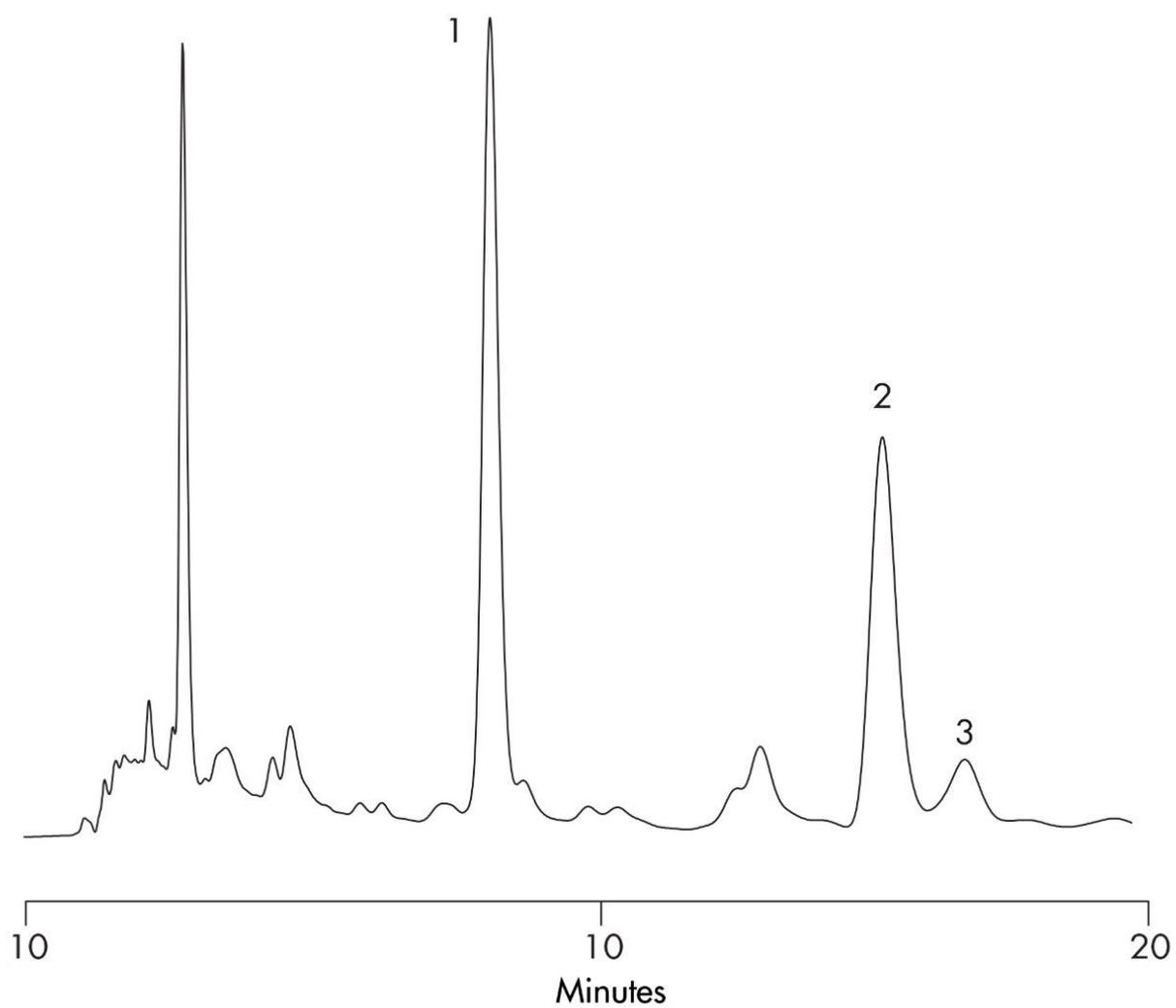
Conditions for Oasis<sup>®</sup> HLB cartridge, 3 cc, 60 mg  
Part Number WAT094226



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Results and Discussion

Compounds	% Recovery
1. quercetin	82%
2. kaempferol	>90%
3. isorhamnetin	>90%
total: 11 mg/tablet	



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WA31763.84, June 2003

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