

# Separation of Hypericin in St. John's Wort

## Application

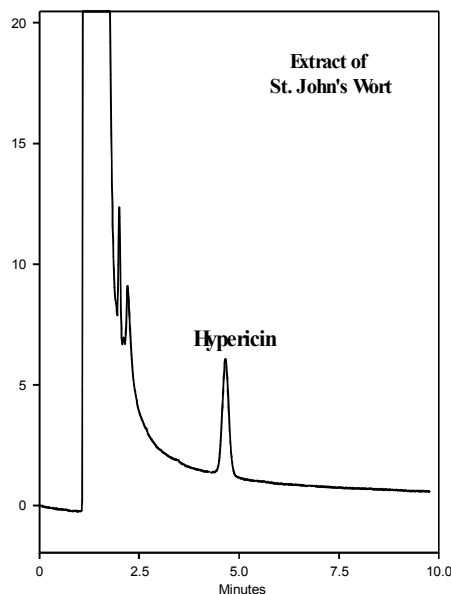
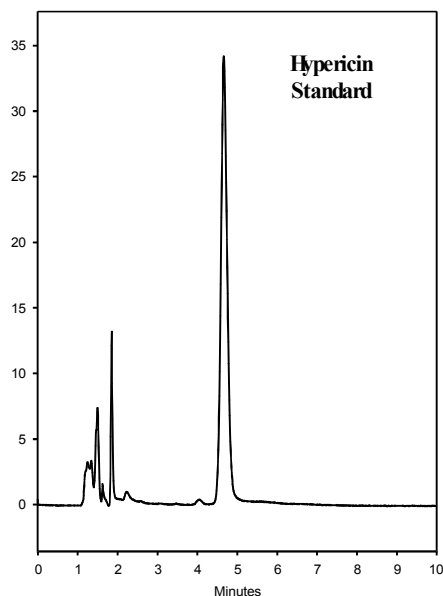
## Pharmaceutical

Robert Ricker

Hypericin is a major component in the herbal extract of *Hypericum Perforatum*, otherwise known as St. John's Wort. St. John's Wort has been used to treat depression but has also been recommended as an appetite suppressant. Due to the increasing interest in natural product therapies and the growing concern regarding government regulation of these manufacturers, a method was developed for hypericin and an herbal product of St. John's Wort.

## Highlights

- *Good peak shape for hypericin at neutral pH on an Agilent ZORBAX Eclipse XDB-C8 column.*
- *Double endcapped Eclipse XDB-C8 yields longer column lifetime with neutral-pH mobile phases.*
- *Good retention of the hypericin allows adequate separation from other UV-absorbing compounds in the actual extract.*



Conditions:  
Column: ZORBAX XDB-C8 (4.6 x 150 mm) (Agilent P/N: 993967-906 )  
Mobile Phase: 23% 25 mM  $\text{Na}_2\text{HPO}_4$ , Dibasic (pH 7.0 with  $\text{H}_3\text{PO}_4$ ): 77% Methanol  
Inj. Vol.: 2  $\mu\text{L}$   
Flow Rate: 1 mL/min  
Temp.: 35°C  
Detect.: UV (254 nm)



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