

St John's Wort (*Hypericum Perforatum*) Extract

Application #AN4460

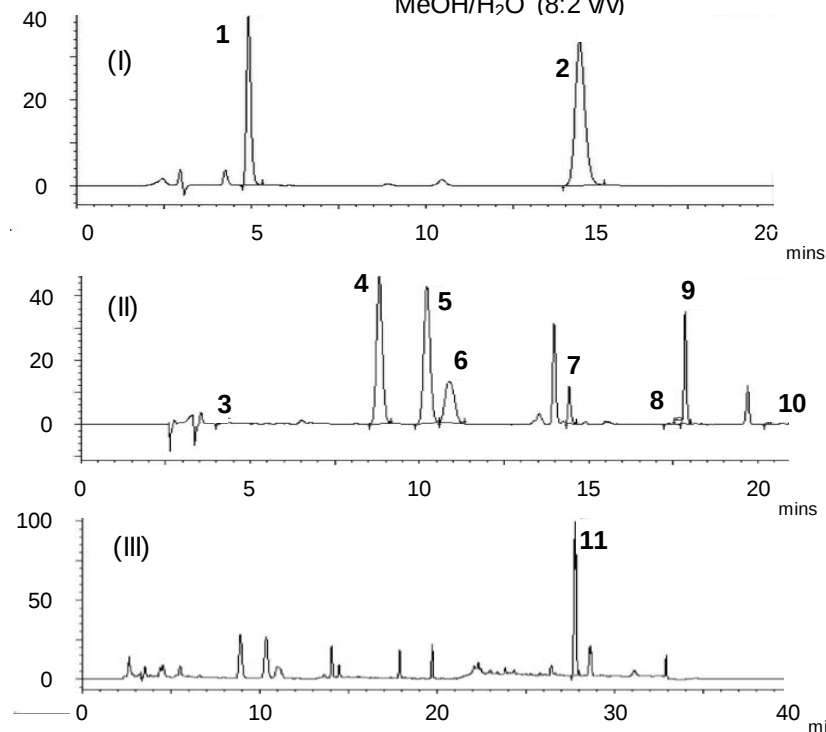
Conditions

Column: ACE 5 C18
Dimensions: 250 x 4.6 mm
Part Number: ACE-121-2546
Mobile Phase (I): A: Ethyl acetate
B: 15.6 g/L sodium dihydrogen phosphate adjusted to pH 2 with phosphoric acid
C: MeOH
A/B/C: 39:41:160 v/v/v

Mobile Phase (II) & (III): A: 0.3% formic acid in H₂O
B: 0.3% formic acid in MeCN

Time (mins)	%B
0.0	18
8.0	18
18.0	53
18.1	97
29.0	97
40.0	18

Flow Rate: 1 mL/min
Injection: 10 µL
Temperature: 40 °C
Detection: UV, (I) 590 nm, (II) 360 nm, (III) 275 nm
Sample: Crude ethanol extract of flowering parts of *H. perforatum* dissolved in MeOH/H₂O (8:2 v/v)



Assay based on European Pharmacopoeia monograph for St John's Wort

1. Pseudohypericin
2. Hypericin
3. Chlorogenic acid
4. Rutin
5. Hyperoside
6. Isoquercitrin
7. Quercitrin
8. Kaempferol
9. Quercetin
10. Amentoflavone
11. Hyperforin

Khayra Zerrouki, Nouredine Djebli, Esra Eroglu Ozkan, Nurten Ozsoy, Ozhan Gul, Afife Mat. *Hypericum perforatum* improve memory and learning in Alzheimer's model: (experimental study in mice). Int. J. Pharm. Sci. 8(8), 49-57 (2016)

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