Pilocarpine

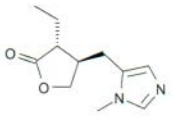
Application #AN3720

Conditions

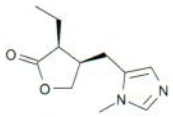
Column: ACE 5 C18
Dimensions: 150 x 4.6 mm
Part Number: ACE-121-1546
Mobile Phase: 2 mM tetrabutylammonium dihydrogen phosphate/MeCN (85:15 v/v)
Flow Rate: 1 mL/min
Detection: UV, 254 nm

Analytes

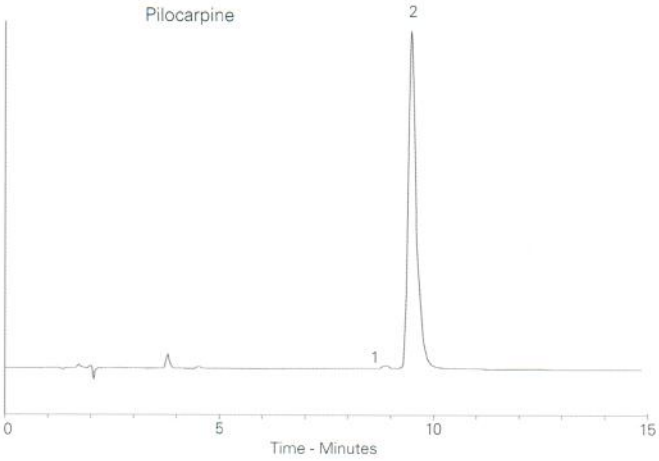
1. Isopilocarpine
2. Pilocarpine



Isopilocarpine



Pilocarpine



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Plant Hormones Involved in Abiotic Stresses

Application #AN4010

Conditions

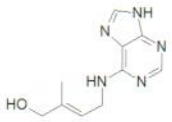
Column: ACE UltraCore 2.5 SuperC18
Dimensions: 150 x 4.6 mm
Part Number: CORE-25A-1546U
Mobile Phase: A: 0.1% formic acid in H_2O
B: MeCN
Gradient:

Time (mins)	%B
0	0
2	40
5	60
13	100
15	20

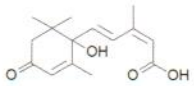
Flow Rate: 0.5 mL/min
Temperature: 40 °C
Detection: Shimadzu LCMS-8040 triple quad MS ESI positive and negative mode
Sample: Crude extract of *Arabidopsis thaliana* rosette leaves

Analytes

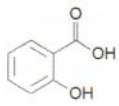
1. Zeatin (+ ESI)
   (*m/z* 220 → 119)
2. (±)-Abscisic acid (+ ESI)
   (*m/z* 247 → 91)
3. Salicylic acid (- ESI)
   (*m/z* 137 → 93)
4. (±)-Jasmonic acid (- ESI)
   (*m/z* 209 → 59)
5. Brassinolide (+ ESI)
   (*m/z* 481 → 95)



Zeatin

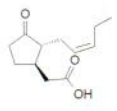


(±)-Abscisic acid

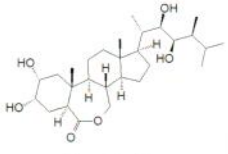


Salicylic acid

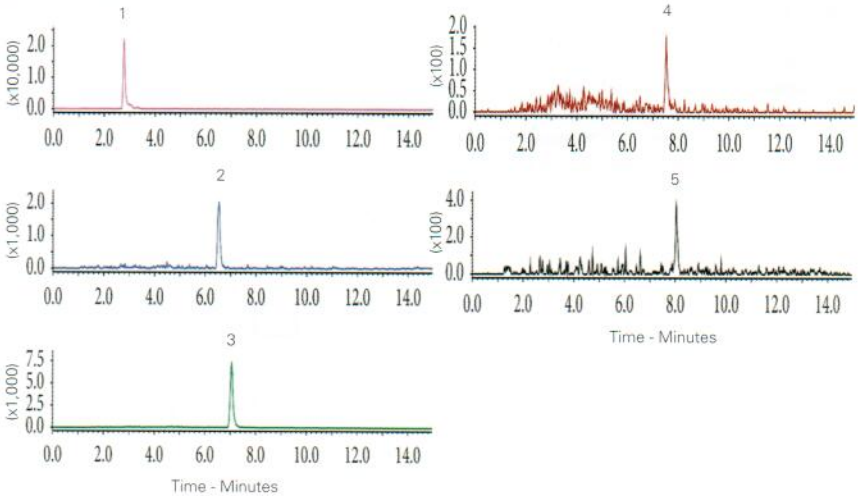
Plant hormones are involved in the regulation of response to exposure of abiotic stresses such as drought or salt



(±)-Jasmonic acid



Brassinolide



Kasote DM, Ghosh R, Chung JY, Kim J, Bae I, Bae H. Multiple Reaction Monitoring Mode Based Liquid Chromatography-Mass Spectrometry Method for Simultaneous Quantification of Brassinolide and other Plant Hormones Involved in Abiotic Stresses. International Journal of Analytical Chemistry (2016). http://dx.doi.org/10.1155/2016/7214087