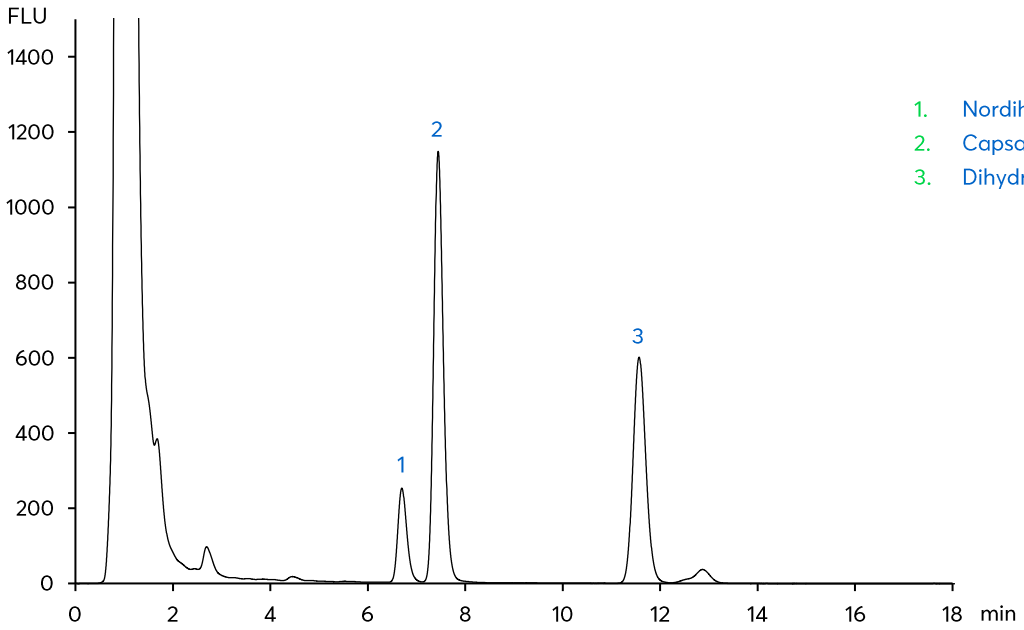
Chromatography Solutions

Application note #7720

Analysis of Capsaicinoids in Dry Chili Flakes with HPLC



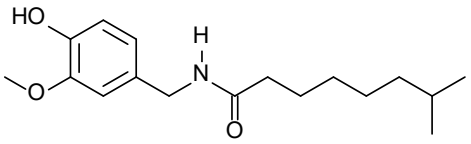
1. Nordihydrocapsaicin
2. Capsaicin
3. Dihydrocapsaicin

Avantor® ACE®

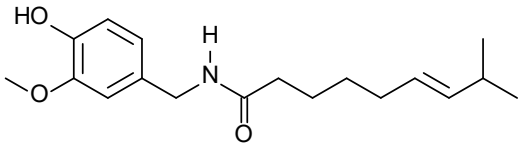
Method Details

CONDITIONS

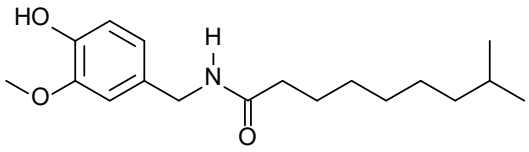
Column:	Avantor® ACE® Excel® 3 C18
Particle Size:	3 µm
Dimensions:	100 x 3.0 mm
Instrument:	VWR Hitachi Chromaster HPLC system with 5440 Fluorescence Detector
Mobile Phase:	H_2O/MeCN (60:40 v/v)
Flow Rate:	0.7 mL/min
Injection:	10 µL
Temperature:	40 °C
Detection:	FL (Ex 280 nm, Em 325 nm)
Sample Preparation:	Extraction with ethanol, centrifugation and filtration (0.45 µm)



Nordihydrocapsaicin



Capsaicin



Dihydrocapsaicin

ORDERING TABLE

Product	Details	Size	Part Number
Avantor® ACE® Excel® 3 C18	HPLC Column	100 x 3.0 mm	EXL-111-1003U
Acetonitrile	VWR HiPerSolv CHROMANORM® for LC-MS	1 L	83640.290
Water	VWR CHROMANORM® super gradient grade	2.5 L	83650.320
VWR Hitachi Chromaster HPLC	600 bar HPLC system. Includes 5430 DAD		903-0355
Chromaster 5440 Fluorescence Detector			903-0164

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