

Fast Dextromethorphan and Dextrorphan analysis with excellent peak shape

Application #579

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General Information

Market: Life Sciences

Matrix: Buffer

Instrument type: HPLC

Description

A liquid chromatography method for the analysis of dextromethorphan and dextrorphan was developed on a Thermo Scientific Accucore C18, 2.6 μm 50 x 2.1mm column for a fast separation with a cycle time of 2 minutes while maintaining excellent peak shape and resolution.

Method Details

Instrument parameters

Instrument Parameter	Value
Run Time Length	2.000 min
Mobile_Phase_A	Water + 0.1% OPA
Mobile_Phase_B	Acetonitrile + 0.1% OPA
Flow_Rate	1.4 mL/min
Column_Temperature	40°C
Injection_Volume	1µl
Wavelength	194nm

Gradient Details

Ret. Time [min]	Flow [ml/min]	%B [%]	%C [%]	%D [%]
0.000	1.400	5.0	0.0	0.0
0.000	1.400	95.0	0.0	0.0
1.000	1.400	5.0	0.0	0.0
2.000	1.400	5.0	0.0	0.0

Column Details

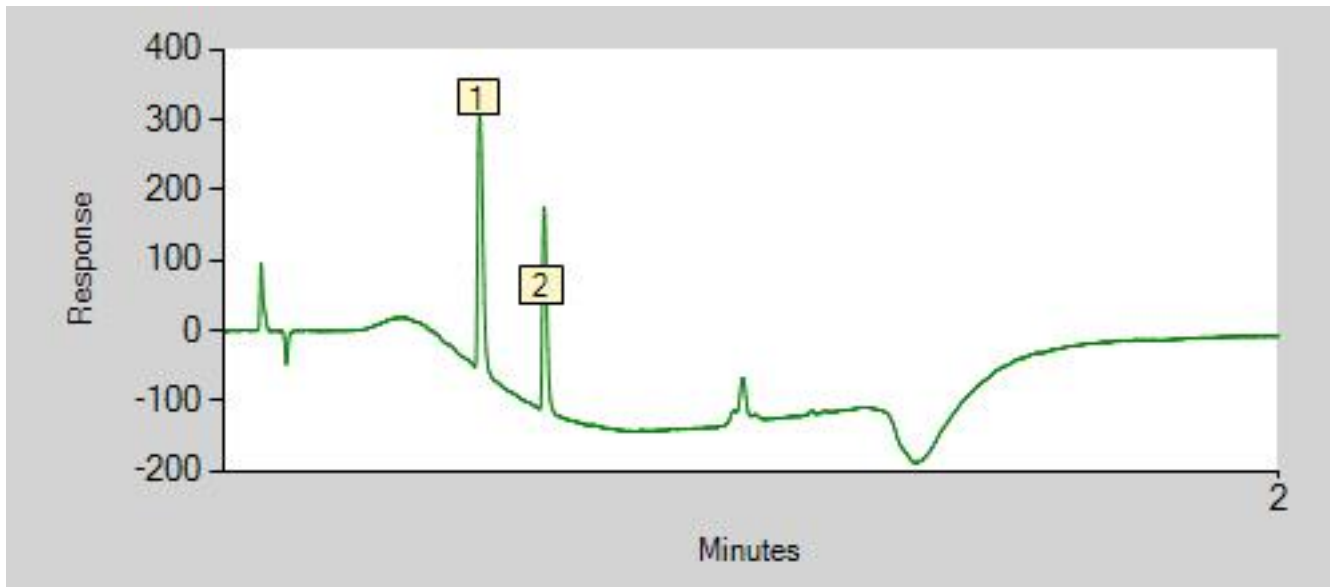
column_A	
Manufacturer	Thermo Scientific
Model	Ultimate 3000
Diameter	2.1
Length	50
Particle Size	2.6
Packing Material	Accucore C18

System information

Instrument Type	UHPLC
HPLC	Generic UHPLC

Results

Channel Detector_1_194nm



No	Peak_Name	*Compound _Class	Retention_Ti me	Peak_Area	Peak_Area_p c	Peak_Height	Peak_Height _pc	Plates_(USP)	Resolution_(USP)	Tailing_Facto r_(USP)
1	Dextrorphan	n.a.	0.487	4.166	60.09	364.613	55.71	12431	7.63	1.66
2	Dextrometho rphan	n.a.	0.609	2.766	39.91	289.906	44.29	27648	n.a.	1.49

Appendix

The application can be accessed at <http://dlibrary.dionex.com/Public/View.aspx?ApplicationID=579>

Available Downloads

Filename	Size(bytes)
AN-LC-SOLA-Dextromethorphan-AN20685_E.pdf	605359
AN-LC-Accucore-Dextromethorphan-Dextrorphan-AN20688_E.pdf	491519

Related Information

No related information available.