

Biomarker Analysis for Gaucher Disease by LC-MS/MS

ACE[®]
Ultra-inert
UHPLC & HPLC Columns

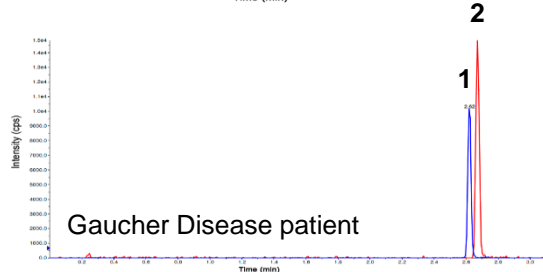
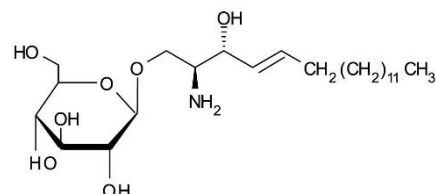
Application #AN3490

Conditions

Column: ACE 3 C8
Dimensions: 50 x 2.1 mm
Part Number: ACE-112-0502
Mobile Phase: A: 50 mM formic acid in H₂O
B: 50 mM formic acid in MeCN/acetone (1:1 v/v)

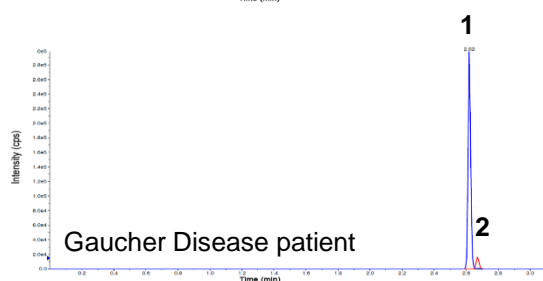
Time (mins)	%B
0.0	5
4.0	66
4.1	100
5.1	100
5.9	5

Flow Rate: 0.9 mL/min
Injection: 5 µL
Temperature: 60 °C
Detection: API 4000 triple quad MS
ESI in positive ion mode
Temperature: 500 °C



1. Glucosylsphingosine
(*m/z* 462 → 282)

2. Lyso-Gb2 (IS)
(*m/z* 624 → 282)



Rolfs A, Giese AK, Grittner U, Mascher D, Elstein D, et al. (2013) Glucosylsphingosine Is a Highly Sensitive and Specific Biomarker for Primary Diagnostic and Follow-Up Monitoring in Gaucher Disease in a Non-Jewish, Caucasian Cohort of Gaucher Disease Patients. PLoS ONE 8(11): e79732. doi:10.1371/journal.pone.0079732

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