

Chemical Information:

Name: Linolenic acid
CAS No.: 463-40-1
Tox21_ID No.: Tox21_201727
NTP_CID No.: 909

Date of Analysis: 17 September 2007

Supplier: Sigma-Aldrich
Lot No.: 035K1342
MW: 278.43 g/mol

Purity and Identity Results:

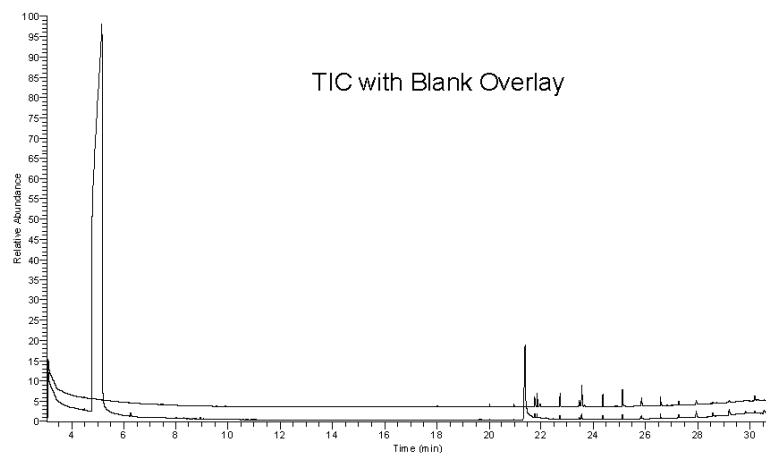
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.17	Not applicable
Unknown	8.93	0.83
Unknown	19.63	0.67
Linolenic acid	21.38	97.16

^a Peaks comprising $\geq 0.5\%$ of total area.

GC/MS Instrument Parameters:

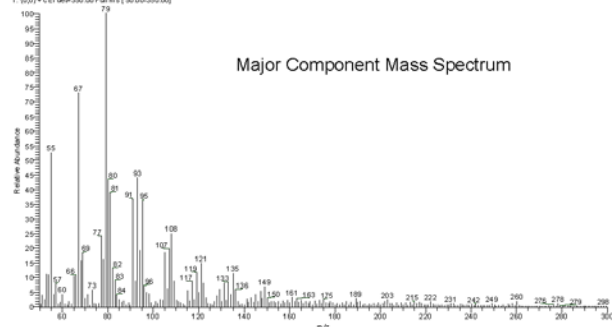
Instrument / Ionization	ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / Electron Impact
Solvent	Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- μ m film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	50 – 350 amu
Injector Temperature	250°C
Injection Volume / Mode	2 μ L / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0d, build 12/02/2005

RT: 3.05 - 31.50 SM 30

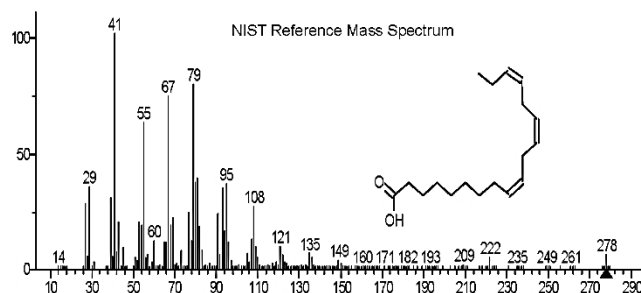


TIC with Blank Overlay

0714911 #2205 RT: 21.38 AU: 1 NL: 4.99E5
T: (S/J) - C (I) 449-350 (S) 744 (S) 50.00-350.00



Major Component Mass Spectrum



NIST Reference Mass Spectrum