

Chemical Information:

Name: Hydroxyvaleric acid
CAS No.: 1619-16-5
Tox21_ID No.: Tox21_200020
NTP_CID No.: 864

Date of Analysis: 13 May 2010

Supplier: ChromaDex
Lot No.: 00008730-0690
MW: 250.33 g/mol

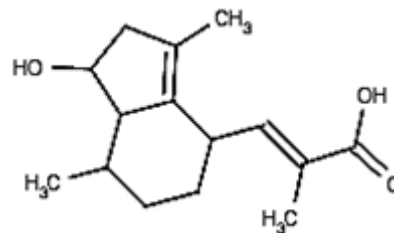
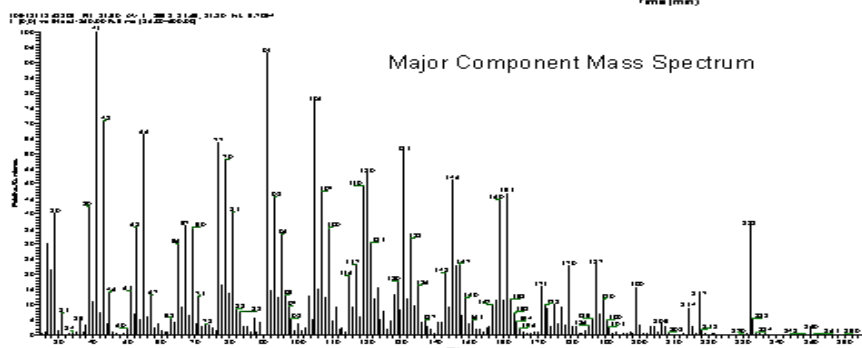
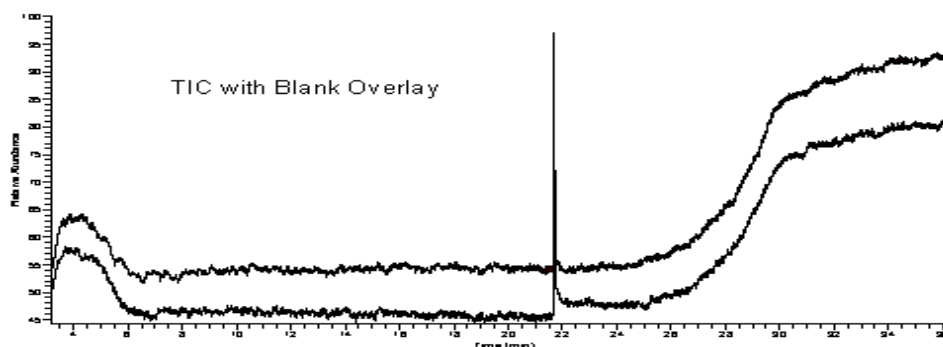
Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Hydroxyvaleric acid	21.69	100.00

^a Peaks comprising ≥ 0.5% of total area.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-μm 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 7 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μL / Split (100:1)
Data Analysis Software	Xcalibur ver 1.2, and NIST Library ver 2.0f, build 10/08/2008


Mass Ion (C₁₅H₂₂O₃) = m/z 250

m/z	Fragment	m/z	Fragment
232	C ₁₅ H ₂₀ O ₂	105	C ₈ H ₉
161	C ₁₁ H ₁₃ O	91	C ₇ H ₇
145	C ₁₁ H ₁₃	55	C ₄ H ₇
131	C ₁₀ H ₁₁	41	C ₃ H ₅
120	C ₉ H ₁₂	29	C ₂ H ₅