

Chemical Information:

Name: D-alpha-Tocopherol succinate
CAS No.: 4345-03-3 Supplier: Supelco
Tox21_ID No.: Tox21_200568 Lot No.: LB39686
NTP_CID No.: 5259 MW: 530 g/mol

Date of Analysis: 05 August 2015

Purity and Identity Results:

Peak Identity ^a	Retention Time (min)	Purity (% Total Area) ^b
Ethanol	1.50	Not applicable
Unknown	11.85	1.02
D-alpha-Tocopherol succinate	54.64	98.98

^a The m/z 530 mass ion was not observed in the major component mass spectrum, while the unknown appears to be related to the succinate group, indicating the compound may have reacted in the inlet.

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Ethanol (~ 400 µg/mL)
Column	Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1-µm film thickness
Carrier Gas	Helium at 2 mL/min
Oven Program	50°C, hold 2 min; ramp @ 5°C/min to 320°C, hold 5 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	40 – 575 amu
Injector Temperature	250°C
Injection Volume / Mode	1 µL / Split (10:1)
Run Time	59 minutes
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / Chemstation Enhanced Data Analysis F.01.01.2317 / NIST Library Version 2.2 Build 2014

